


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒**APPLICATION FOR PERMIT TO DRILL**

<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				<b>1. WELL NAME and NUMBER</b> Monument Butte East State H-36-8-16		
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO				<b>3. FIELD OR WILDCAT</b> MONUMENT BUTTE		
<b>6. NAME OF OPERATOR</b> NEWFIELD PRODUCTION COMPANY				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> GMBU (GRRV)		
<b>8. ADDRESS OF OPERATOR</b> Rt 3 Box 3630 , Myton, UT, 84052				<b>7. OPERATOR PHONE</b> 435 646-4825		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-22061		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		<b>9. OPERATOR E-MAIL</b> mcrozier@newfield.com		
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>				<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>				<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		
<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
<b>LOCATION AT SURFACE</b>	1896 FNL 1955 FEL	SWNE	36	8.0 S	16.0 E	S
<b>Top of Uppermost Producing Zone</b>	1280 FNL 2597 FEL	NWNE	36	8.0 S	16.0 E	S
<b>At Total Depth</b>	1280 FNL 2597 FEL	NWNE	36	8.0 S	16.0 E	S
<b>21. COUNTY</b> DUCHESNE		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1280		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 20		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1431		<b>26. PROPOSED DEPTH</b> MD: 6501 TVD: 6501		
<b>27. ELEVATION - GROUND LEVEL</b> 5459		<b>28. BOND NUMBER</b> B001834		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-7478		

**ATTACHMENTS****VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
<b>NAME</b> Mandie Crozier	<b>TITLE</b> Regulatory Tech
<b>SIGNATURE</b>	<b>DATE</b> 08/17/2009
<b>PHONE</b> 435 646-4825	<b>EMAIL</b> mcrozier@newfield.com
<b>API NUMBER ASSIGNED</b> 43013501110000	<b>APPROVAL</b>  Permit Manager

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	5.5	0	6501		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	6501	15.5			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	8.625	0	500		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	500	24.0			

MONUMENT BUTTE EAST H-36-8-16  
(Surface Location) NAD 83  
LATITUDE = 40° 04' 35.13"  
LONGITUDE = 110° 03' 55.19"



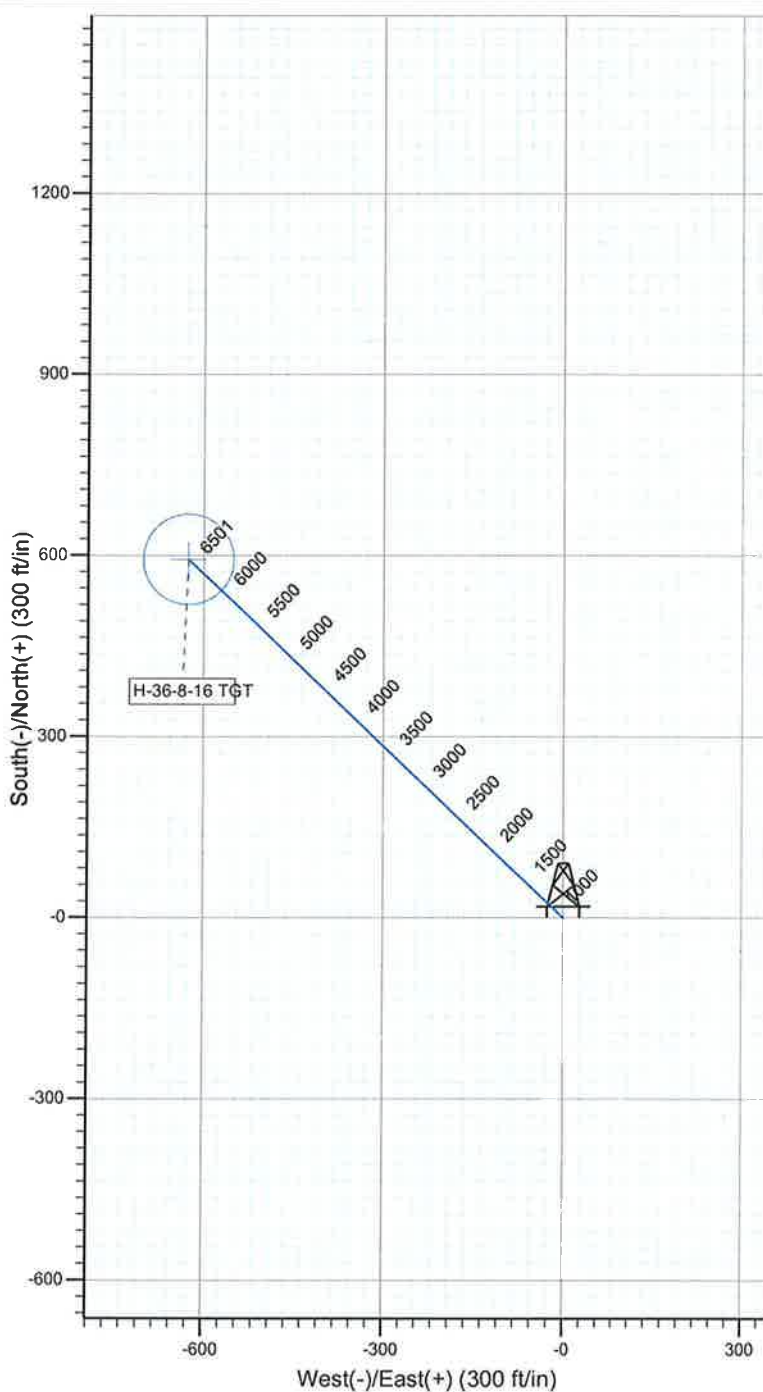
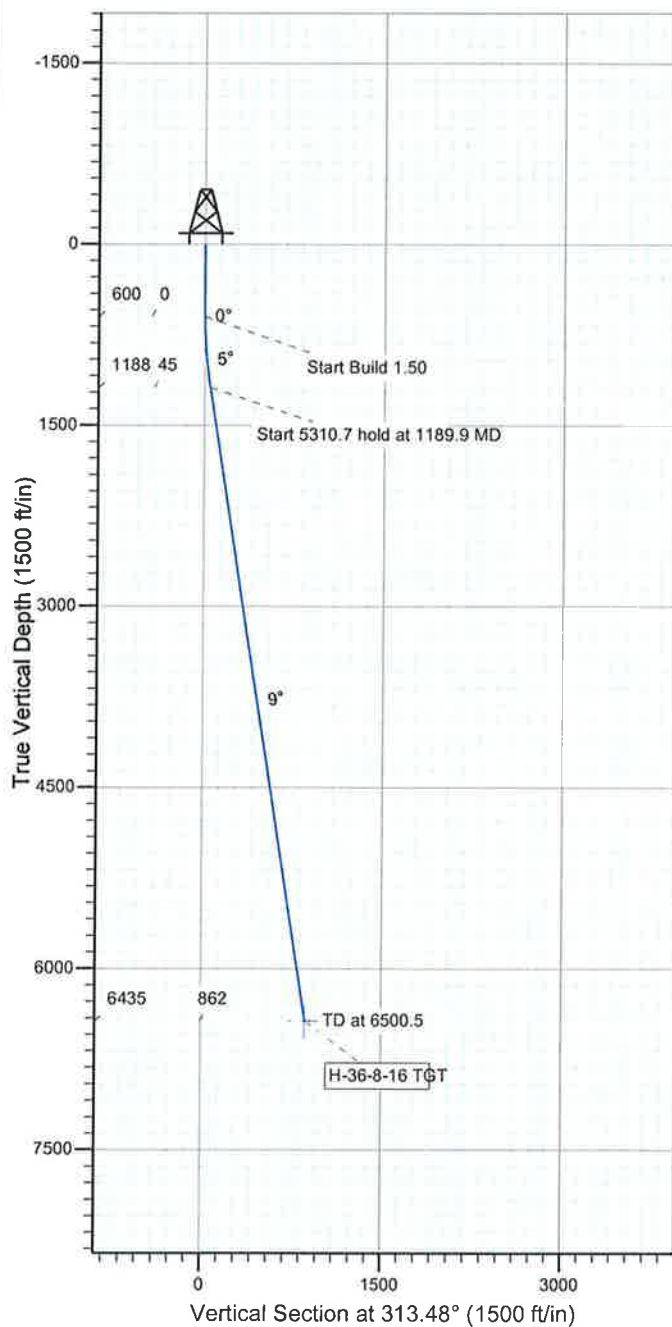
Project: USGS Myton SW (UT)  
 Site: SECTION 36  
 Well: H-36-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1



Azimuths to True North  
 Magnetic North: 11.55°

Magnetic Field  
 Strength: 52506.4snT  
 Dip Angle: 65.88°  
 Date: 2009/07/16  
 Model: IGRF200510

KOP @ 600'  
 DOGLEG RATE 1.5 DEG/100  
 TARGET RADIUS IS 75'



WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
H-36-8-16 TGT	6435.0	593.4	-625.7	Circle (Radius: 75.0)



Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1189.9	8.85	313.48	1187.5	31.3	-33.0	1.50	313.48	45.5	
4	6500.5	8.85	313.48	6435.0	593.4	-625.7	0.00	0.00	862.3	H-36-8-16 TGT



## **NEWFIELD EXPLORATION**

**USGS Myton SW (UT)**

**SECTION 36**

**H-36-8-16**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**16 July, 2009**



# HATHAWAY BURNHAM

## Planning Report



**Database:** EDM 2003.21 Single User Db  
**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 36  
**Well:** H-36-8-16  
**Wellbore:** Wellbore #1  
**Design:** Design #1

**Local Co-ordinate Reference:** Well H-36-8-16  
**TVD Reference:** H-36-8-16 @ 5471.0ft  
**MD Reference:** H-36-8-16 @ 5471.0ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

**Project** USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

**Map System:** US State Plane 1983  
**Geo Datum:** North American Datum 1983  
**Map Zone:** Utah Central Zone

**System Datum:** Mean Sea Level  
**Using geodetic scale factor**

**Site** SECTION 36, SEC 26 T8S, R16E

**Site Position:** Northing: 7,202,697.00 ft Latitude: 40° 5' 3.401 N  
**From:** Lat/Long Easting: 2,045,250.00 ft Longitude: 110° 3' 10.915 W  
**Position Uncertainty:** 0.0 ft Slot Radius: " Grid Convergence: 0.93 °

**Well** H-36-8-16, SHL LAT 40 04 35.13, LONG -110 03 55.18

**Well Position** +N/-S -2,861.1 ft Northing: 7,199,781.36 ft Latitude: 40° 4' 35.130 N  
+/-W -3,440.6 ft Easting: 2,041,856.02 ft Longitude: 110° 3' 55.180 W  
**Position Uncertainty** 0.0 ft Wellhead Elevation: ft Ground Level: 5,337.0 ft

**Wellbore** Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/07/16	11.55	65.88	52,506

**Design** Design #1

**Audit Notes:**

**Version:** Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	6,435.0	0.0	0.0	313.48

**Plan Sections**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,189.9	8.85	313.48	1,187.5	31.3	-33.0	1.50	1.50	0.00	313.48	
6,500.5	8.85	313.48	6,435.0	593.4	-625.7	0.00	0.00	0.00	0.00	H-36-8-16 TGT



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Well: H-36-8-16  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:

Well H-36-8-16  
H-36-8-16 @ 5471.0ft  
H-36-8-16 @ 5471.0ft  
True  
Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	313.48	700.0	0.9	-0.9	1.3	1.50	1.50	0.00
800.0	3.00	313.48	799.9	3.6	-3.8	5.2	1.50	1.50	0.00
900.0	4.50	313.48	899.7	8.1	-8.5	11.8	1.50	1.50	0.00
1,000.0	6.00	313.48	999.3	14.4	-15.2	20.9	1.50	1.50	0.00
1,100.0	7.50	313.48	1,098.6	22.5	-23.7	32.7	1.50	1.50	0.00
1,189.9	8.85	313.48	1,187.5	31.3	-33.0	45.5	1.50	1.50	0.00
1,200.0	8.85	313.48	1,197.5	32.4	-34.1	47.0	0.00	0.00	0.00
1,300.0	8.85	313.48	1,296.3	42.9	-45.3	62.4	0.00	0.00	0.00
1,400.0	8.85	313.48	1,395.2	53.5	-56.4	77.8	0.00	0.00	0.00
1,500.0	8.85	313.48	1,494.0	64.1	-67.6	93.2	0.00	0.00	0.00
1,600.0	8.85	313.48	1,592.8	74.7	-78.8	108.5	0.00	0.00	0.00
1,700.0	8.85	313.48	1,691.6	85.3	-89.9	123.9	0.00	0.00	0.00
1,800.0	8.85	313.48	1,790.4	95.9	-101.1	139.3	0.00	0.00	0.00
1,900.0	8.85	313.48	1,889.2	106.4	-112.2	154.7	0.00	0.00	0.00
2,000.0	8.85	313.48	1,988.0	117.0	-123.4	170.1	0.00	0.00	0.00
2,100.0	8.85	313.48	2,086.8	127.6	-134.6	185.4	0.00	0.00	0.00
2,200.0	8.85	313.48	2,185.6	138.2	-145.7	200.8	0.00	0.00	0.00
2,300.0	8.85	313.48	2,284.4	148.8	-156.9	216.2	0.00	0.00	0.00
2,400.0	8.85	313.48	2,383.3	159.4	-168.0	231.6	0.00	0.00	0.00
2,500.0	8.85	313.48	2,482.1	169.9	-179.2	247.0	0.00	0.00	0.00
2,600.0	8.85	313.48	2,580.9	180.5	-190.4	262.4	0.00	0.00	0.00
2,700.0	8.85	313.48	2,679.7	191.1	-201.5	277.7	0.00	0.00	0.00
2,800.0	8.85	313.48	2,778.5	201.7	-212.7	293.1	0.00	0.00	0.00
2,900.0	8.85	313.48	2,877.3	212.3	-223.9	308.5	0.00	0.00	0.00
3,000.0	8.85	313.48	2,976.1	222.9	-235.0	323.9	0.00	0.00	0.00
3,100.0	8.85	313.48	3,074.9	233.5	-246.2	339.3	0.00	0.00	0.00
3,200.0	8.85	313.48	3,173.7	244.0	-257.3	354.6	0.00	0.00	0.00
3,300.0	8.85	313.48	3,272.5	254.6	-268.5	370.0	0.00	0.00	0.00
3,400.0	8.85	313.48	3,371.4	265.2	-279.7	385.4	0.00	0.00	0.00
3,500.0	8.85	313.48	3,470.2	275.8	-290.8	400.8	0.00	0.00	0.00
3,600.0	8.85	313.48	3,569.0	286.4	-302.0	416.2	0.00	0.00	0.00
3,700.0	8.85	313.48	3,667.8	297.0	-313.1	431.6	0.00	0.00	0.00
3,800.0	8.85	313.48	3,766.6	307.5	-324.3	446.9	0.00	0.00	0.00
3,900.0	8.85	313.48	3,865.4	318.1	-335.5	462.3	0.00	0.00	0.00
4,000.0	8.85	313.48	3,964.2	328.7	-346.6	477.7	0.00	0.00	0.00
4,100.0	8.85	313.48	4,063.0	339.3	-357.8	493.1	0.00	0.00	0.00
4,200.0	8.85	313.48	4,161.8	349.9	-369.0	508.5	0.00	0.00	0.00
4,300.0	8.85	313.48	4,260.6	360.5	-380.1	523.8	0.00	0.00	0.00
4,400.0	8.85	313.48	4,359.5	371.0	-391.3	539.2	0.00	0.00	0.00
4,500.0	8.85	313.48	4,458.3	381.6	-402.4	554.6	0.00	0.00	0.00
4,600.0	8.85	313.48	4,557.1	392.2	-413.6	570.0	0.00	0.00	0.00
4,700.0	8.85	313.48	4,655.9	402.8	-424.8	585.4	0.00	0.00	0.00
4,800.0	8.85	313.48	4,754.7	413.4	-435.9	600.8	0.00	0.00	0.00
4,900.0	8.85	313.48	4,853.5	424.0	-447.1	616.1	0.00	0.00	0.00
5,000.0	8.85	313.48	4,952.3	434.5	-458.2	631.5	0.00	0.00	0.00
5,100.0	8.85	313.48	5,051.1	445.1	-469.4	646.9	0.00	0.00	0.00
5,200.0	8.85	313.48	5,149.9	455.7	-480.6	662.3	0.00	0.00	0.00





# HATHAWAY BURNHAM

Planning Report



Database: EDM 2003.21 Single User Db  
 Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 36  
 Well: H-36-8-16  
 Wellbore: Wellbore #1  
 Design: Design #1

Local Co-ordinate Reference: Well H-36-8-16  
 TVD Reference: H-36-8-16 @ 5471.0ft  
 MD Reference: H-36-8-16 @ 5471.0ft  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	8.85	313.48	5,248.7	466.3	-491.7	677.7	0.00	0.00	0.00
5,400.0	8.85	313.48	5,347.6	476.9	-502.9	693.0	0.00	0.00	0.00
5,500.0	8.85	313.48	5,446.4	487.5	-514.0	708.4	0.00	0.00	0.00
5,600.0	8.85	313.48	5,545.2	498.1	-525.2	723.8	0.00	0.00	0.00
5,700.0	8.85	313.48	5,644.0	508.6	-536.4	739.2	0.00	0.00	0.00
5,800.0	8.85	313.48	5,742.8	519.2	-547.5	754.6	0.00	0.00	0.00
5,900.0	8.85	313.48	5,841.6	529.8	-558.7	770.0	0.00	0.00	0.00
6,000.0	8.85	313.48	5,940.4	540.4	-569.9	785.3	0.00	0.00	0.00
6,100.0	8.85	313.48	6,039.2	551.0	-581.0	800.7	0.00	0.00	0.00
6,200.0	8.85	313.48	6,138.0	561.6	-592.2	816.1	0.00	0.00	0.00
6,300.0	8.85	313.48	6,236.8	572.1	-603.3	831.5	0.00	0.00	0.00
6,400.0	8.85	313.48	6,335.7	582.7	-614.5	846.9	0.00	0.00	0.00
6,500.5	8.85	313.48	6,435.0	593.4	-625.7	862.3	0.00	0.00	0.00

## Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
H-36-8-16 TGT - plan hits target - Circle (radius 75.0)	0.00	0.00	6,435.0	593.4	-625.7	7,200,364.57	2,041,220.92	40° 4' 40.994 N	110° 4' 3.229 W

NEWFIELD PRODUCTION COMPANY  
MONUMENT BUTTE EAST STATE H-36-8-16  
AT SURFACE: SW/NE SECTION 36, T8S, R16E  
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0 – 1730'
Green River	1730'
Wasatch	6501'

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 1730' – 6501' – Oil

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

Location & Sampled Interval	Date Sampled
Flow Rate	Temperature
Hardness	pH
Water Classification (State of Utah)	Dissolved Calcium (Ca) (mg/l)
Dissolved Iron (Fe) (ug/l)	Dissolved Sodium (Na) (mg/l)
Dissolved Magnesium (Mg) (mg/l)	Dissolved Carbonate (CO <sub>3</sub> ) (mg/l)
Dissolved Bicarbonate (NaHCO <sub>3</sub> ) (mg/l)	Dissolved Chloride (Cl) (mg/l)
Dissolved Sulfate (SO <sub>4</sub> ) (mg/l)	Dissolved Total Solids (TDS) (mg/l)

**PROPOSED CASING PROGRAM:**

**a. Casing Design: Monument Butte East State H-36-8-16**

Size	Interval		Weight	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Surface casing 8-5/8"	0'	500'	24.0	J-55	STC	2,950 10.52	1,370 8.61	244,000 20.33
Prod casing 5-1/2"	0'	6,501'	15.5	J-55	LTC	4,810 2.33	4,040 1.95	217,000 2.15

**Assumptions:**

- 1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
- 2) Prod casing MASP (production mode) = Pore pressure – gas gradient
- 3) All collapse calculations assume fully evacuated casing w/ gas gradient
- 4) All tension calculations assume air weight

Frac gradient at surface casing shoe = 13.0 ppg  
Pore pressure at surface casing shoe = 8.33 ppg  
Pore pressure at prod casing shoe = 8.33 ppg  
Gas gradient = 0.115 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

**b. Cementing Design: Monument Butte East State H-36-8-16**

Job	Fill	Description	Sacks	OH Excess*	Weight (ppg)	Yield (ft <sup>3</sup> /sk)
			ft <sup>3</sup>			
Surface casing	500'	Class G w/ 2% CaCl	229 268	30%	15.8	1.17
Prod casing Lead	4,501'	Prem Lite II w/ 10% gel + 3% KCl	311 1014	30%	11.0	3.26
Prod casing Tail	2,000'	50/50 Poz w/ 2% gel + 3% KCl	363 451	30%	14.3	1.24

\*Actual volume pumped will be 15% over the caliper log

- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

**4. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operator's minimum specifications for pressure control equipment are as follows:

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

5. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to  $\pm 350$  feet will be drilled with an air/mist system. From about 350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite.

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

6. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

7. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 500' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +/- . A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

8. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

9. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

Ten Point Well Program &  
Thirteen Point Well Program  
Page 4 of 9

It is anticipated that the drilling operations will commence the fourth quarter of 2009, and take approximately seven (7) days from spud to rig release.

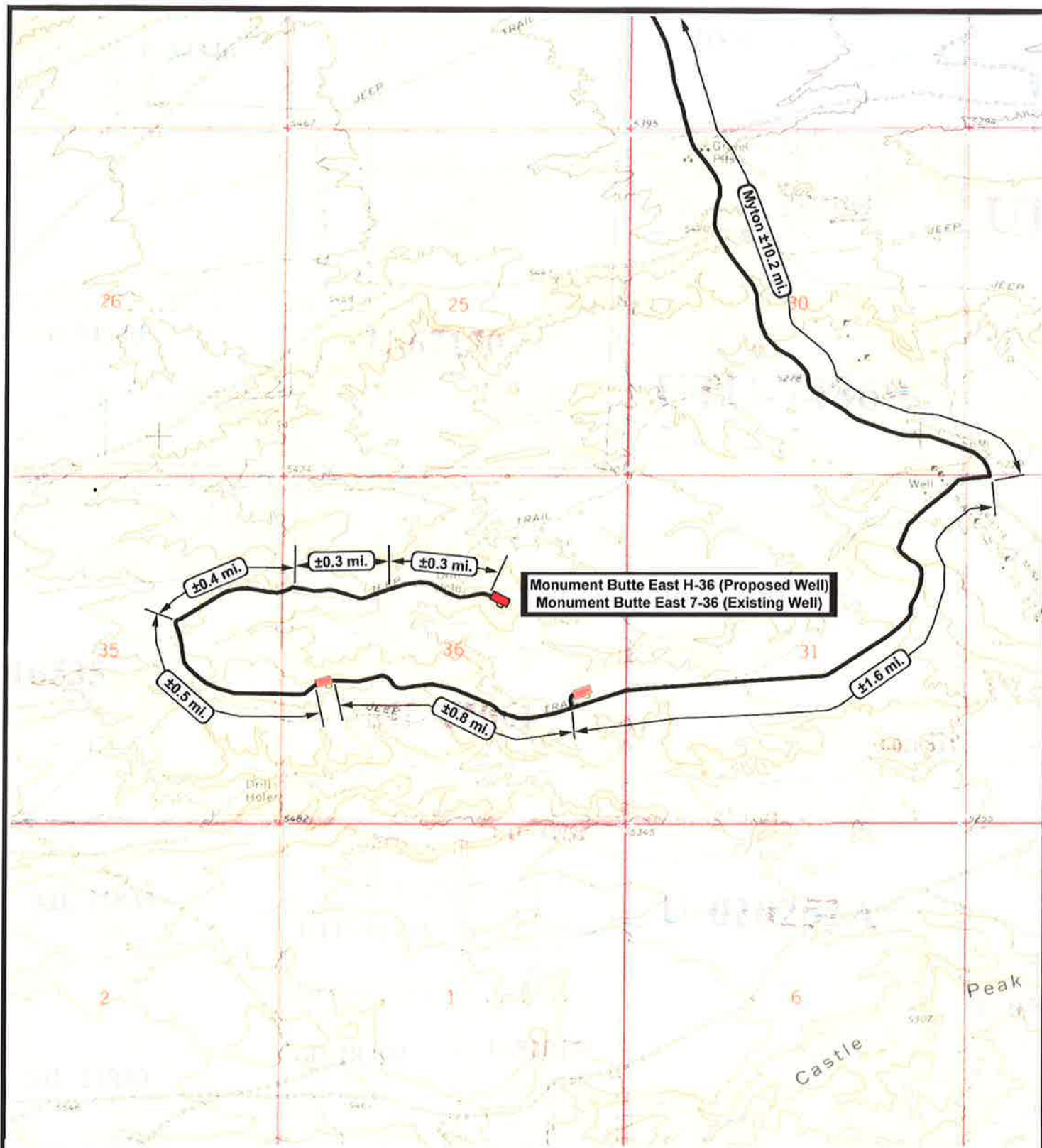


DATE: 06-30-2009

**Existing Road**

"A"





**NEWFIELD**  
Exploration Company

**Monument Butte East H-36-8-16 (Proposed Well)**  
**Monument Butte East 7-36-8-16 (Existing Well)**  
Pad Location: SWNE SEC. 36, T8S, R16E, S.L.B.&M.



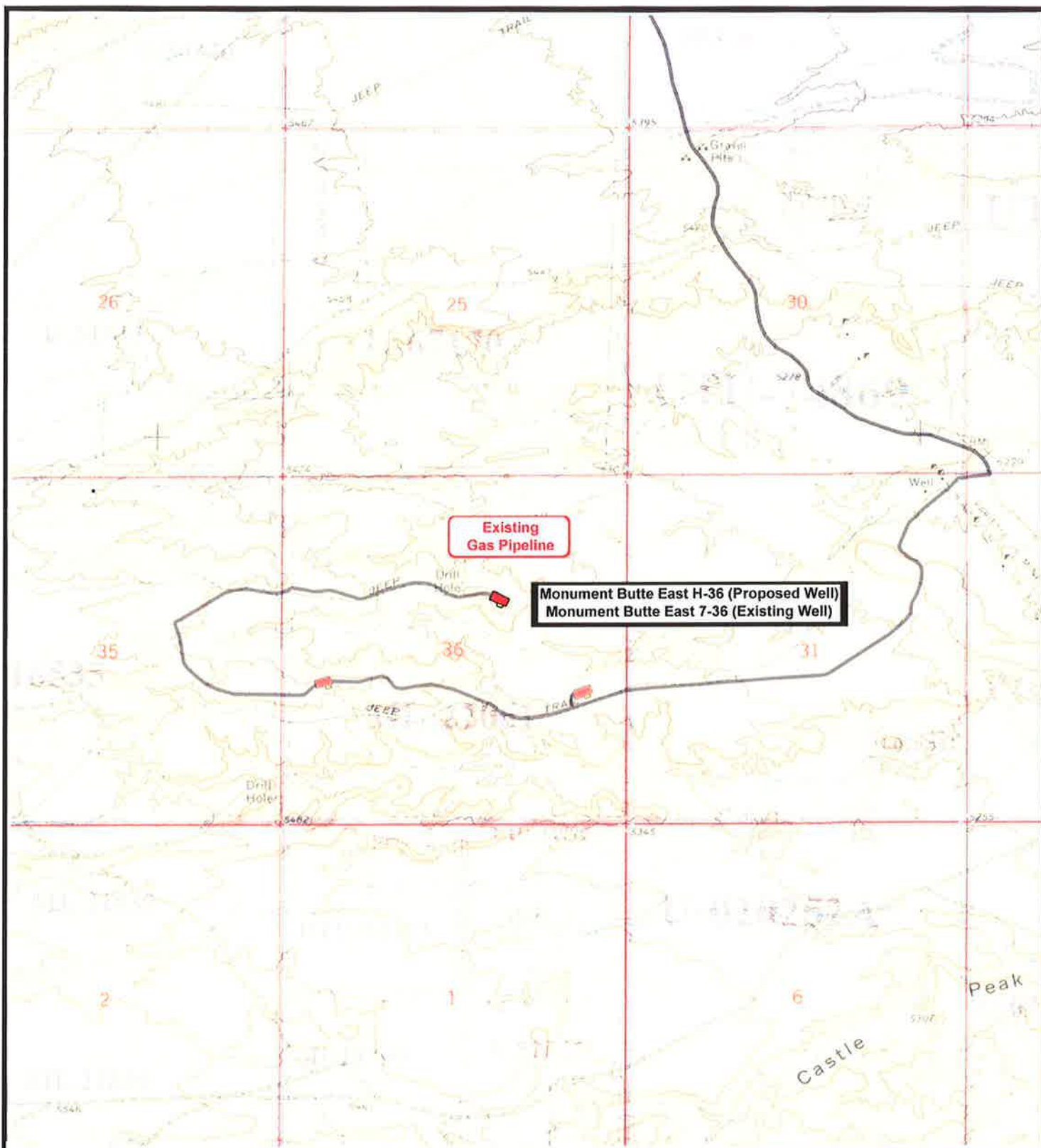
**Tri-State**  
Land Surveying Inc.  
(435) 781-2501  
180 North Vernal Ave. Vernal, Utah 84078




**SCALE:** 1" = 2,000'  
**DRAWN BY:** JAS  
**DATE:** 06-30-2009

**Legend**  
Existing Road

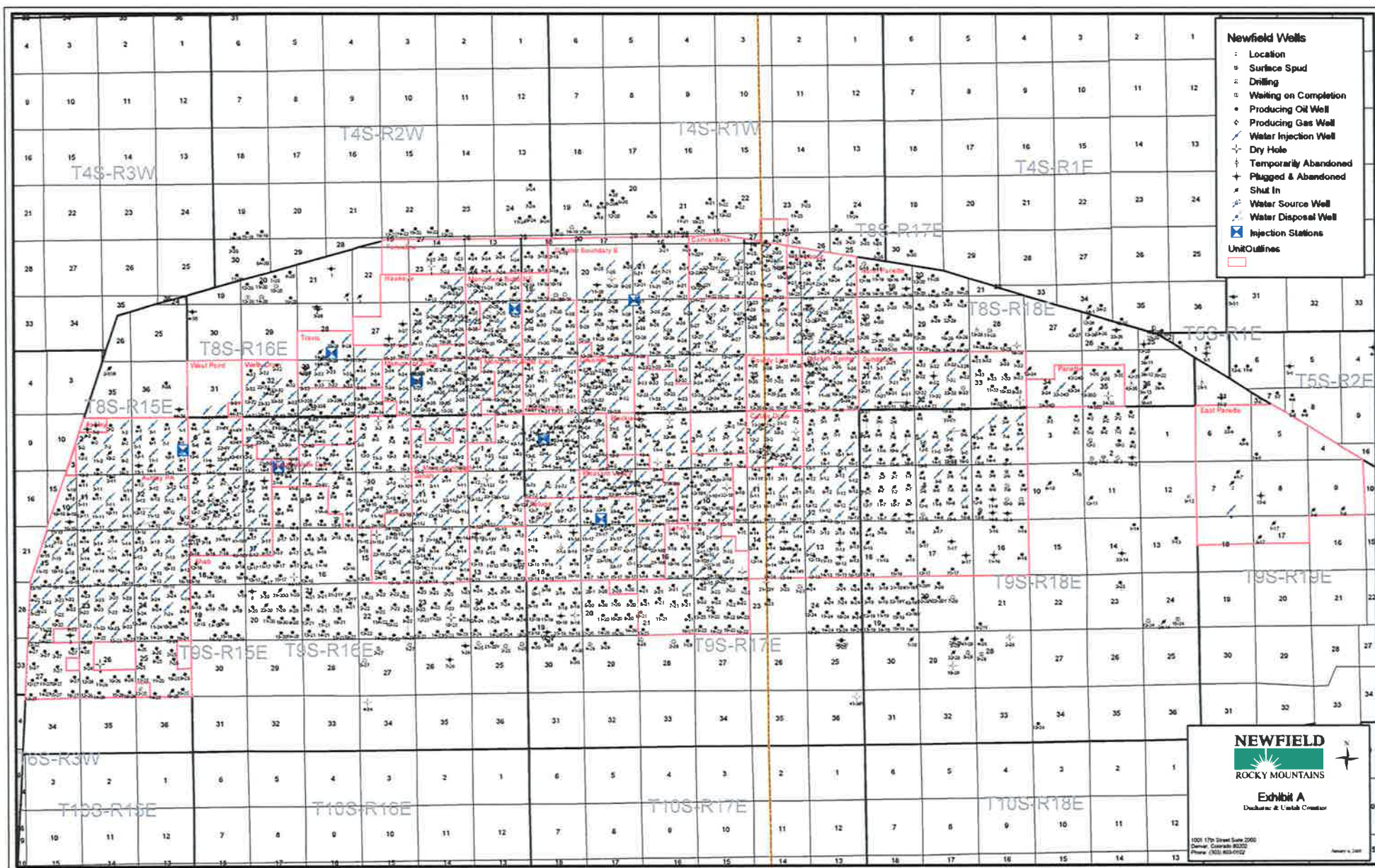
**TOPOGRAPHIC MAP**

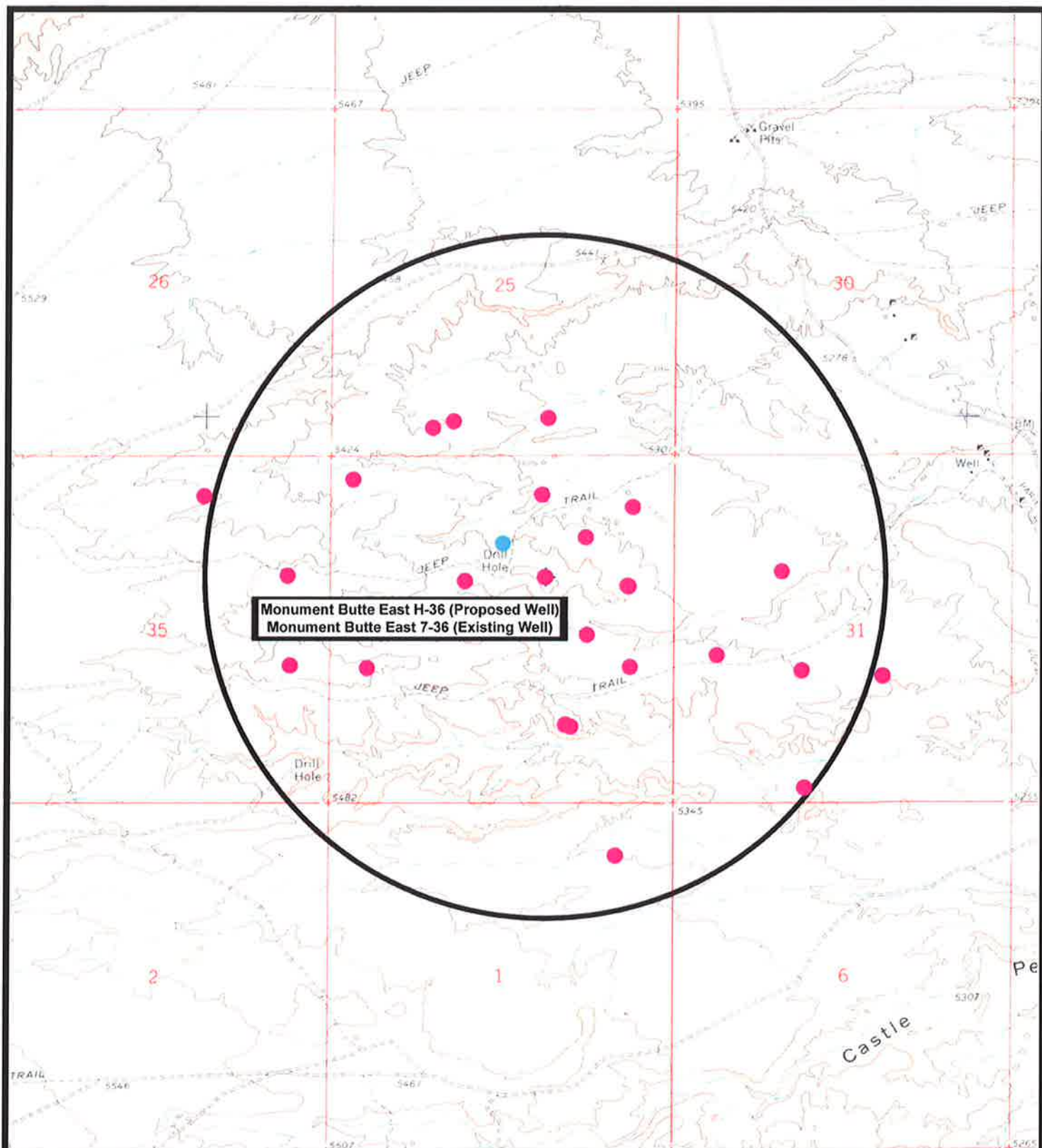
**"B"**




 <p><b>NEWFIELD</b> Exploration Company</p>		 <p><b>Tri-State</b> Land Surveying Inc. (435) 781-2501 180 North Vernal Ave. Vernal, Utah 84078</p> <p><b>SCALE:</b> 1" = 2,000' <b>DRAWN BY:</b> JAS <b>DATE:</b> 06-30-2009</p>	<p><b>Legend</b></p> <p>— Roads</p> <p><b>TOPOGRAPHIC MAP</b></p> <p><b>"C"</b></p>
<p><b>Monument Butte East H-36-8-16 (Proposed Well)</b> <b>Monument Butte East 7-36-8-16 (Existing Well)</b> Pad Location: SWNE SEC. 36, T8S, R16E, S.L.B.&amp;M.</p>			







**Monument Butte East H-36 (Proposed Well)**  
**Monument Butte East 7-36 (Existing Well)**



**NEWFIELD**  
Exploration Company

**Monument Butte East H-36-8-16 (Proposed Well)**  
**Monument Butte East 7-36-8-16 (Existing Well)**  
 Pad Location: SWNE SEC. 36, T8S, R16E, S.L.B.&M.





**Tri-State**  
Land Surveying Inc.  
 (435) 781-2501  
 180 North Vernal Ave. Vernal, Utah 84078

**SCALE: 1" = 2,000'**  
**DRAWN BY: JAS**  
**DATE: 06-30-2009**

**Legend**

- Pad Location
- Bottom Hole Location
- One-Mile Radius

**Exhibit "B"**

NEWFIELD PRODUCTION COMPANY  
MONUMENT BUTTE EAST STATE H-36-8-16  
AT SURFACE: SW/NE SECTION 36, T8S, R16E  
DUCHESNE COUNTY, UTAH

THIRTEEN POINT SURFACE PROGRAM

1. **EXISTING ROADS**

See attached **Topographic Map "A"**

To reach Newfield Production Company well location site Monument Butte East State H-36-8-16 located in the SW ¼ NE ¼ Section 36, T8S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed southeasterly along Hwy 53 - 8.8 miles ± to it's junction with an existing road to the west; proceed southwesterly - 2.9 miles ± to it's junction with an existing road to the northeast; proceed northeasterly - 1.0 miles to the existing 7-36-8-16 well location.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South, thereafter the roads are constructed with existing materials and gravel. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal.

2. **PLANNED ACCESS ROAD**

There is no proposed access road for this location. The proposed well will be drilled off of the existing 7-36-8-16 well pad. See attached **Topographic Map "B"**.

There will be no new gates or cattle guards required.

3. **LOCATION OF EXISTING WELLS**

Refer to **EXHIBIT B**.

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

The proposed well will be drilled directionally off of the existing 7-36-8-16 well pad. There will be a pumping unit and a short flow line added to the existing tank battery for the proposed H-36-8-16.

It is anticipated that this well will be a producing oil well.



Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted Carlsbad Canyon. All facilities will be painted within six months of installation.

5. **LOCATION AND TYPE OF WATER SUPPLY**

Newfield Production will transport water by truck for drilling purposes from the following water sources:

Johnson Water District  
Water Right: 43-7478

Neil Moon Pond  
Water Right: 43-11787

Maurice Harvey Pond  
Water Right: 47-1358

Newfield Collector Well  
Water Right: 41-3530 (A30414DV, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

6. **SOURCE OF CONSTRUCTION MATERIALS**

The proposed Monument Butte East State H-36-8-16 will be drilled off of the existing 7-36-8-16 well pad. No additional surface disturbance will be required for this location.

7. **METHODS FOR HANDLING WASTE DISPOSAL**

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the

produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

8. **ANCILLARY FACILITIES:**

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. **WELL SITE LAYOUT:**

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

- a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.
- b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.
- c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times
- d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.
- e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

10. **PLANS FOR RESTORATION OF SURFACE:**

a) **Producing Location**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) **Dry Hole Abandoned Location**

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP:** State of Utah

12. **OTHER ADDITIONAL INFORMATION:**

- a) Newfield Production Company is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, Newfield is to immediately stop work that might further disturb such materials and contact the Authorized Officer.
- b) Newfield Production will control noxious weeds along rights-of-way for roads, pipelines, well sites or other applicable facilities. On State administered land it is required that a Pesticide Use Proposal shall be submitted and given approval prior to the application of herbicides or other possible hazardous chemicals.
- c) Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on State Lands after the conclusion of drilling operations or at any other time without State authorization. However, if State authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### **Additional Surface Stipulations**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

#### **Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the Monument Butte East State H-36-8-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the Monument Butte East State H-36-8-16 Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

The State office shall be notified upon site completion prior to moving on the drilling rig.

13. **LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:**

Representative

Ten Point Well Program &  
Thirteen Point Well Program  
Page 8 of 8

Name: Tim Eaton  
Address: Newfield Production Company  
Route 3, Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that Newfield Production Company is considered to be the operator of well #H-36-8-16, SW/NE Section 36, T8S, R16E, LEASE #ML-22061, Duchesne County, Utah and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Bond #B001834.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

8/17/09  
Date

  
Mandie Crozier  
Regulatory Specialist  
Newfield Production Company

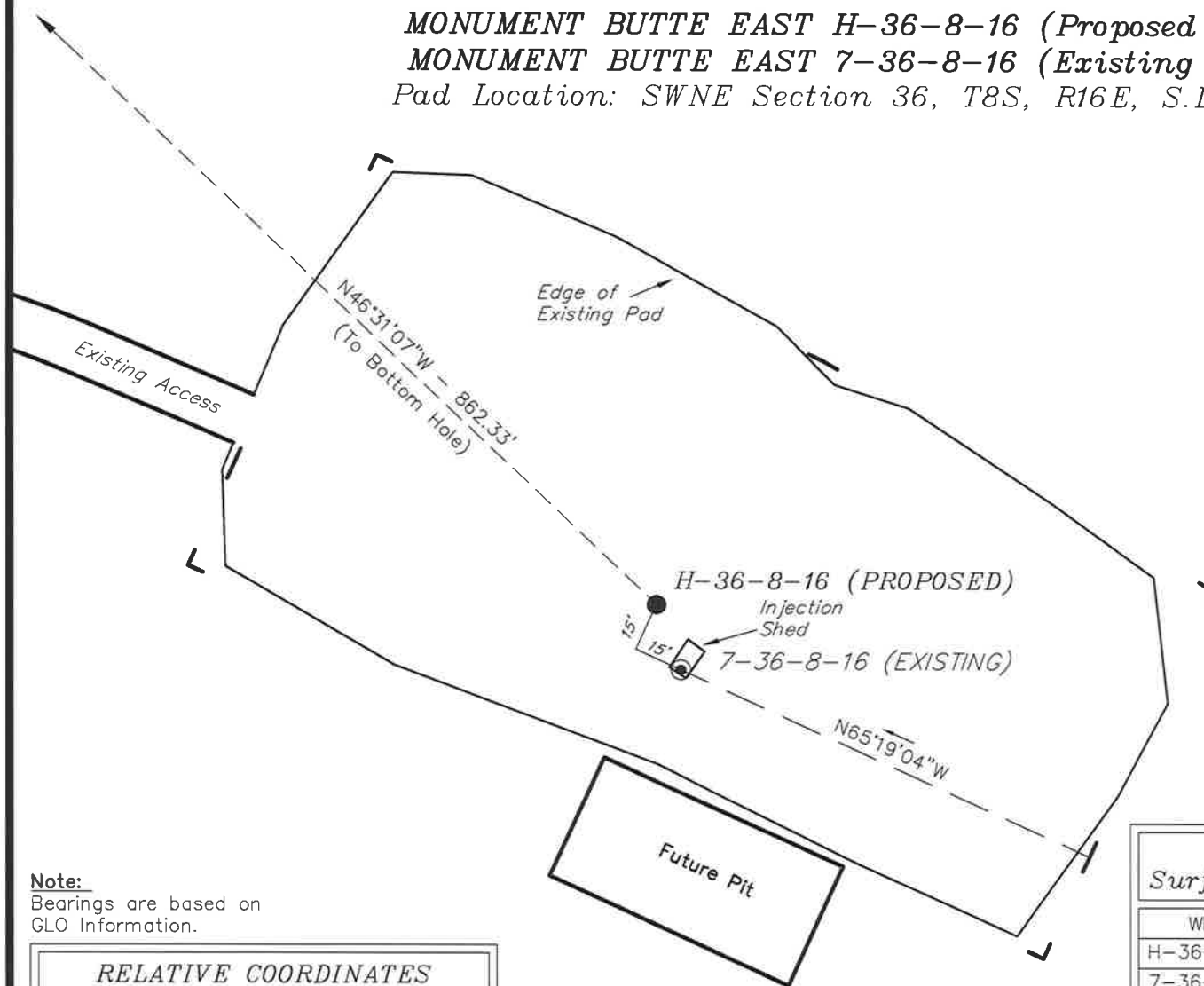
# NEWFIELD PRODUCTION COMPANY

## WELL PAD INTERFERENCE PLAT

MONUMENT BUTTE EAST H-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST 7-36-8-16 (Existing Well)

Pad Location: SWNE Section 36, T8S, R16E, S.L.B.&M.



### TOP HOLE FOOTAGES

H-36-8-16 (PROPOSED)  
1883' FNL & 1982' FEL

### BOTTOM HOLE FOOTAGES

H-36-8-16 (PROPOSED)  
1280' FNL & 2597' FEL

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

WELL	LATITUDE	LONGITUDE
H-36-8-16	40° 04' 35.13"	110° 03' 55.18"
7-36-8-16	40° 04' 35.06"	110° 03' 55.44"

### Note:

Bearings are based on  
GLO Information.

### RELATIVE COORDINATES From top hole to bottom hole

WELL	NORTH	EAST
H-36-8-16	593'	-626'

SURVEYED BY: T.H.	DATE SURVEYED: 06-17-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-29-09
SCALE: 1" = 50'	REVISED:

**Tri State** (435) 781-2501  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

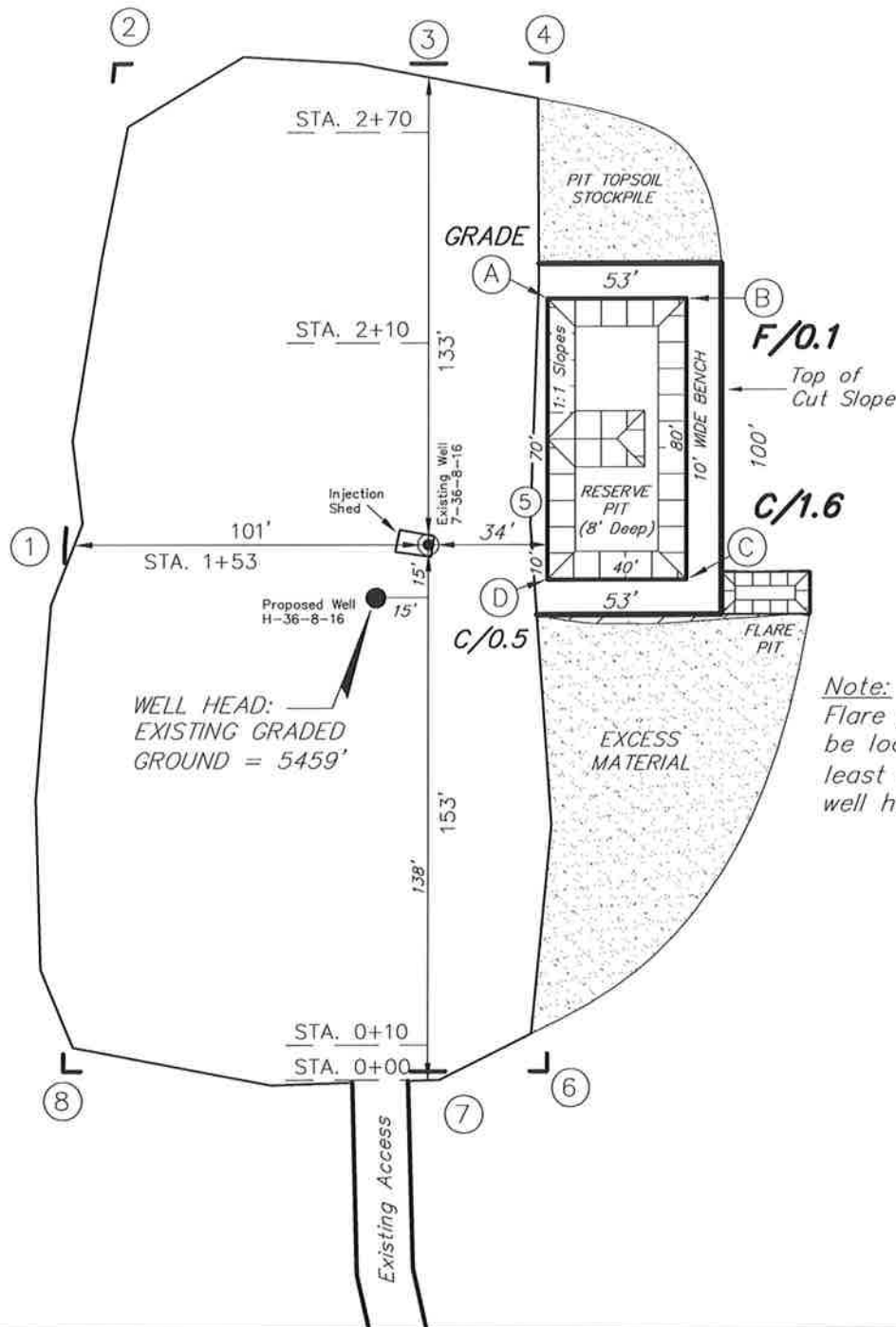
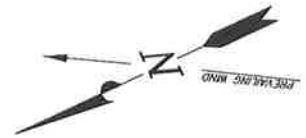


# **NEWFIELD PRODUCTION COMPANY**

**MONUMENT BUTTE EAST H-36-8-16 (Proposed Well)**

**MONUMENT BUTTE EAST 7-36-8-16 (Existing Well)**

*Pad Location: SWNE Section 36, T8S, R16E, S.L.B.&M.*



SURVEYED BY: T.H.	DATE SURVEYED: 06-17-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-25-09
SCALE: 1" = 50'	REVISED:

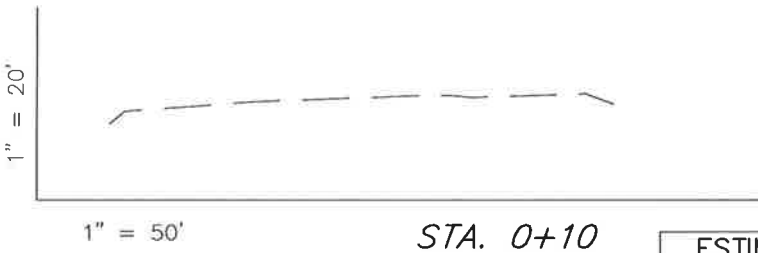
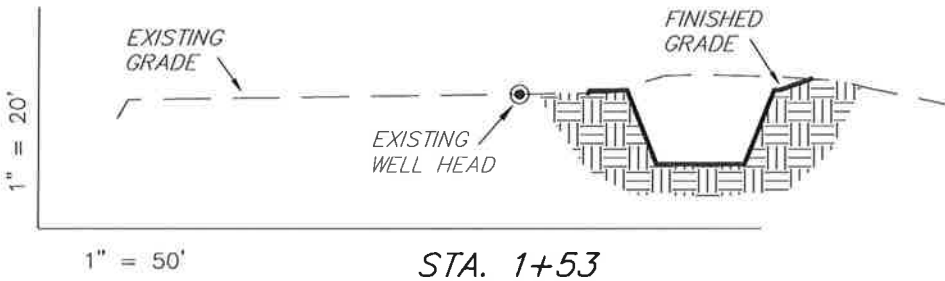
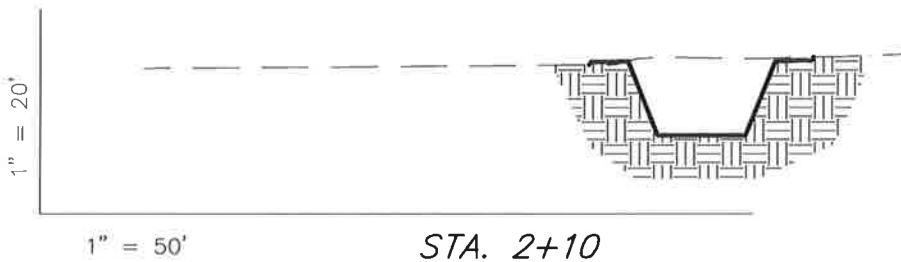
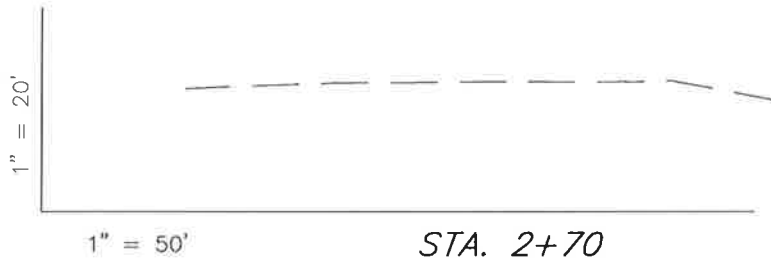
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(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## CROSS SECTIONS

MONUMENT BUTTE EAST H-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST 7-36-8-16 (Existing Well)



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

### ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)

ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	170	10	Topsoil is not included in Pad Cut	160
PIT	640	0		640
TOTALS	810	10	120	800

SURVEYED BY: T.H.	DATE SURVEYED: 06-17-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-25-09
SCALE: 1" = 50'	REVISED:

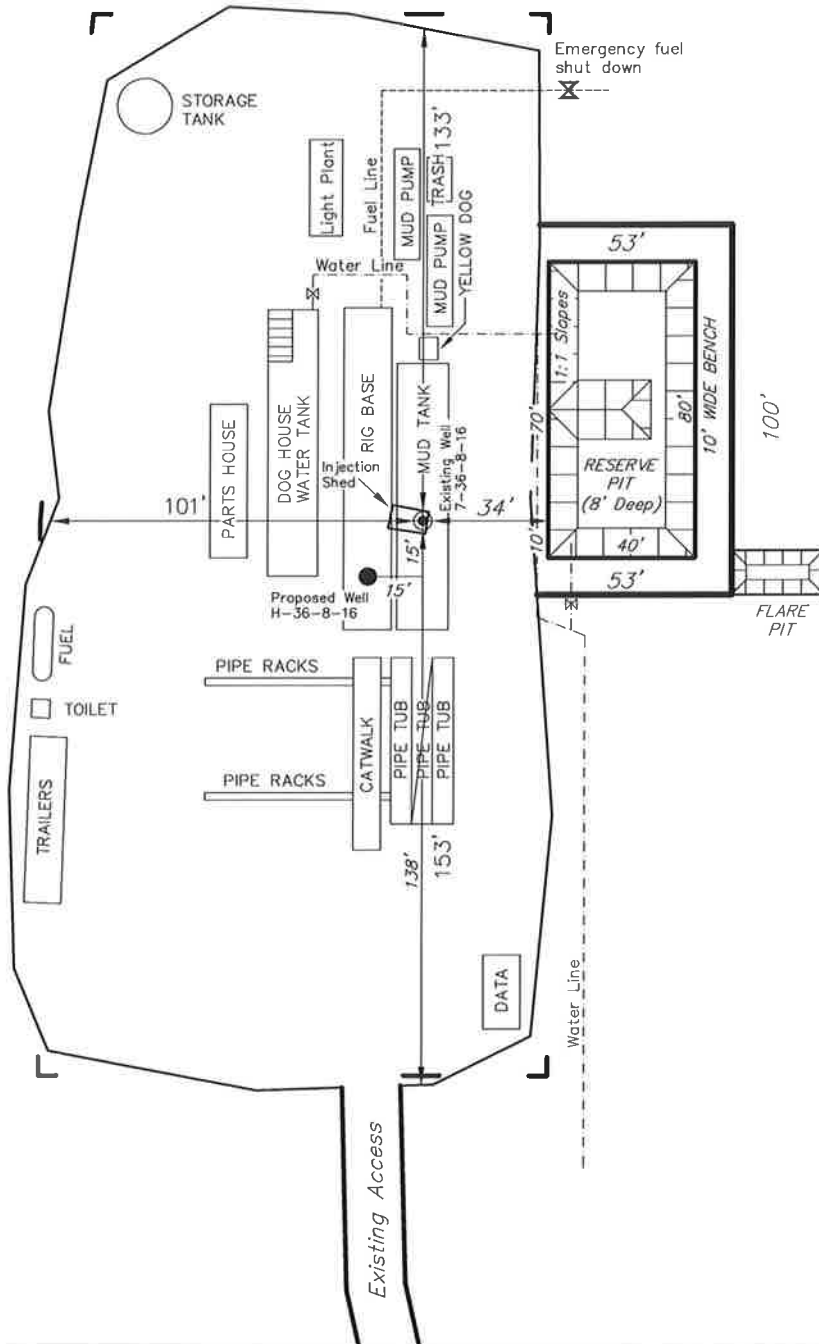
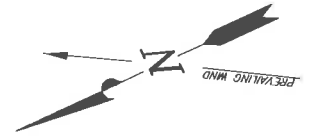
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(435) 781-2501

# NEWFIELD PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

MONUMENT BUTTE EAST H-36-8-16 (Proposed Well)

MONUMENT BUTTE EAST 7-36-8-16 (Existing Well)



Note:  
Flare pit is to  
be located at  
least 80' from  
well head.

SURVEYED BY: T.H.	DATE SURVEYED: 06-17-09
DRAWN BY: F.T.M.	DATE DRAWN: 06-25-09
SCALE: 1" = 50'	REVISED:

**Tri State**  
Land Surveying, Inc.  
(435) 781-2501  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

# Newfield Production Company Proposed Site Facility Diagram

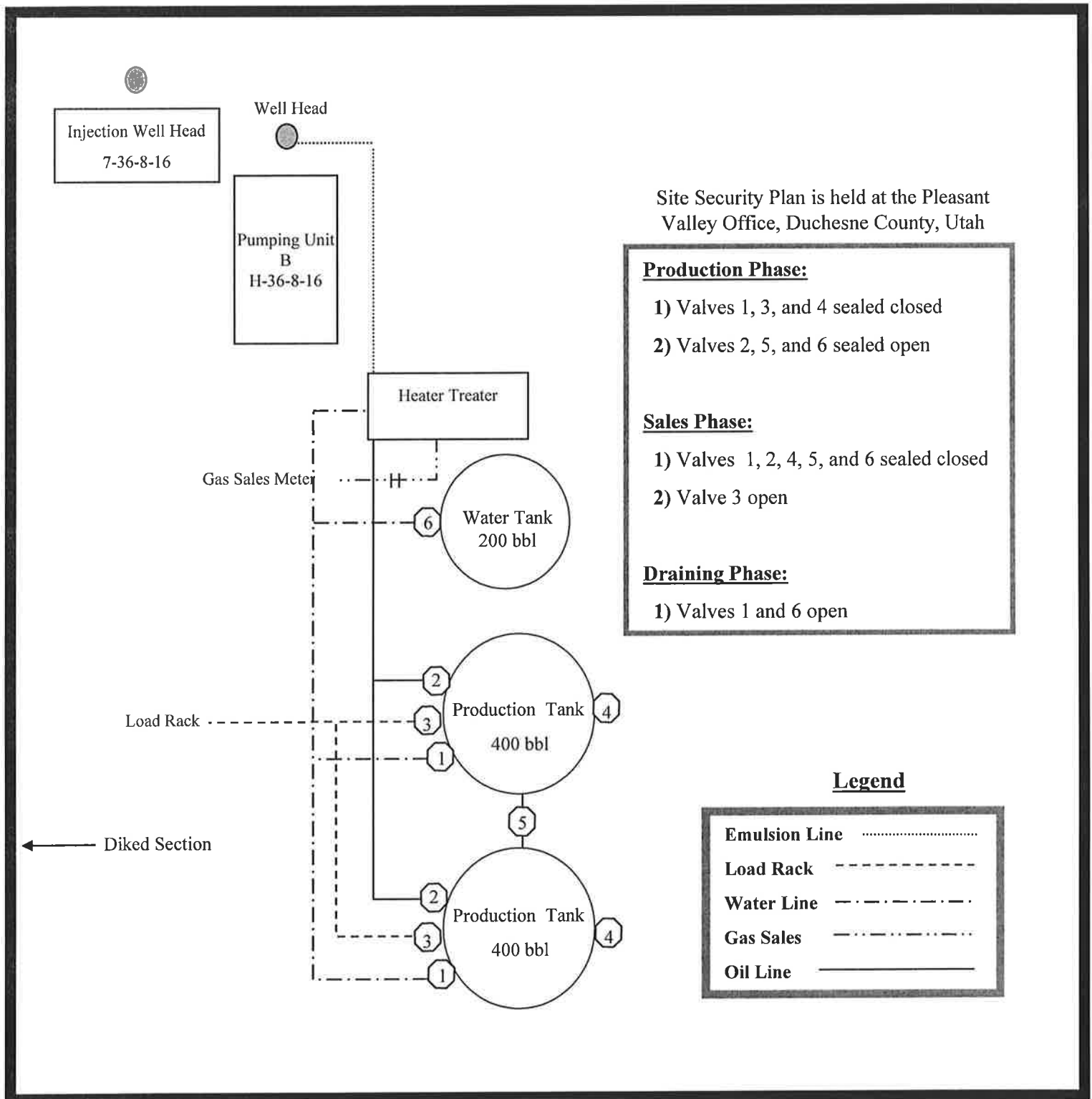
Monument Butte East State H-36-8-16

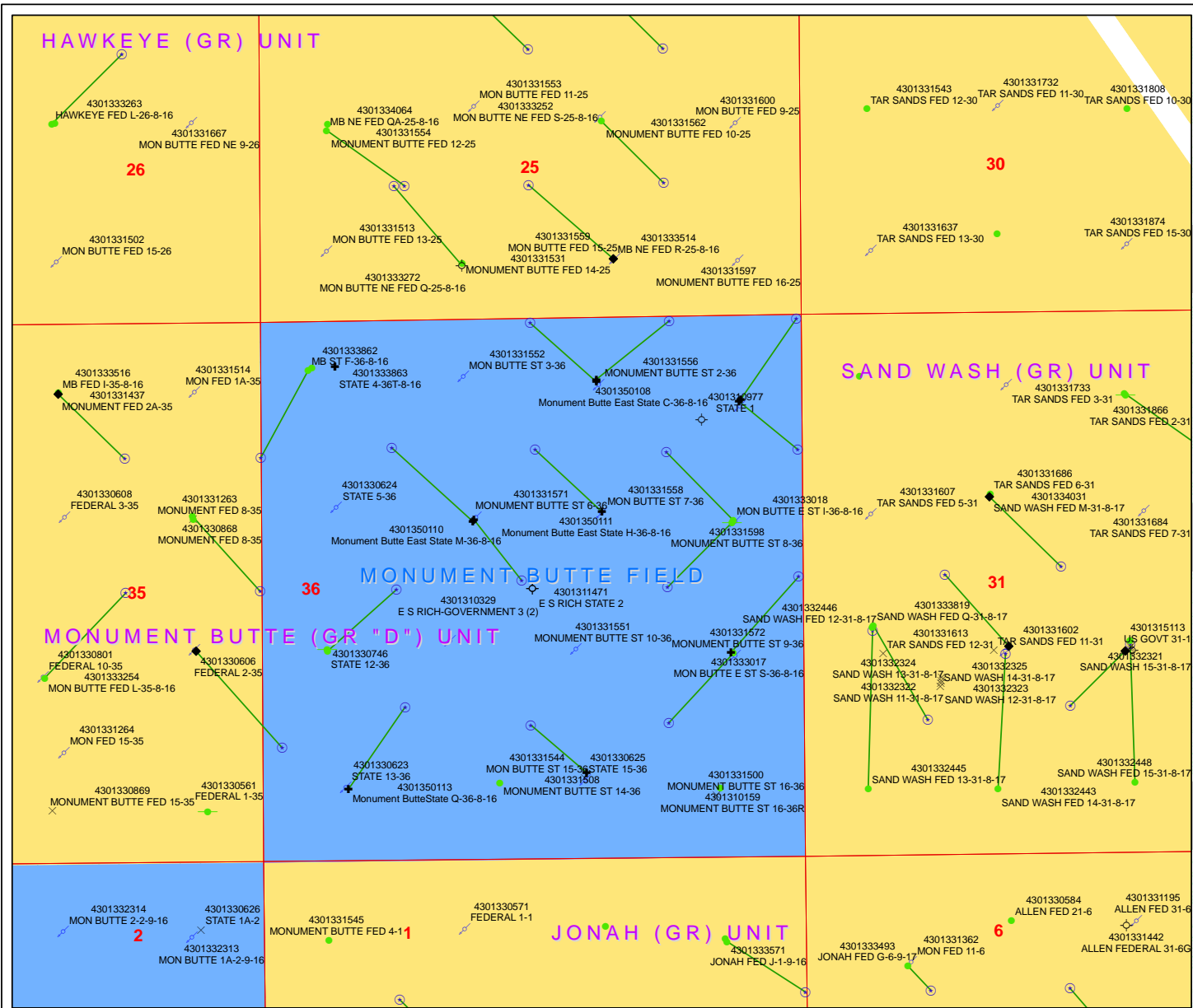
From the Monument Butte State 7-36-8-16 Location

SW/NE Sec. 36 T8S, R16E

Duchesne County, Utah

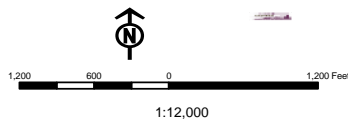
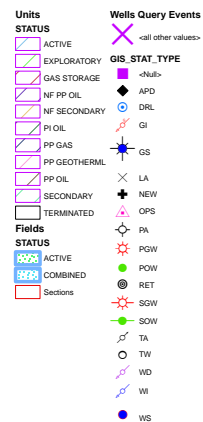
ML-22061





**API Number: 4301350111**  
**Well Name: Monument Butte East State H-36-8-16**  
**Township 08.0 S Range 16.0 E Section 36**  
**Meridian: SLBM**  
**Operator: NEWFIELD PRODUCTION COMPANY**

Map Prepared:  
Map Produced by Diana Mason



**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana  
**Date:** 8/31/2009 9:01 AM  
**Subject:** SITLA well approvals (Newfield 16)

**CC:** Garrison, LaVonne

The following wells have been approved by SITLA including arch and paleo clearance.

Monument Butte East State A-36-8-16 [API #4301350105],

Monument Butte East State J-36-8-16 [API #4301350106],

Monument Butte East State B-36-8-16 [API #4301350107],

Monument Butte East State C-36-8-16 [API #4301350108],

Monument Butte East State G-36-8-16 [API #4301350109],

Monument Butte East State M-36-8-16 [API #4301350110],

Monument Butte East State H-36-8-16 [API #4301350111],

Monument Butte State Q-36-8-16 [API #4301350113],

Monument Butte East State R-36-8-16 [API #4301350114],

Monument Butte State G-2-9-16 [API #4301350115],

South Monument Butte State M-2-9-16 [API #4301350116],

South Monument Butte State N-2-9-16 [API #4301350117],

South Monument Butte State P-2-9-16 [API #4301350118],

South Monument Butte State X-2-9-16 [API #4301350119],

South Monument Butte State V-2-9-16 [API #4301350120],

South Monument Butte State W-2-9-16 [API #4301350121]

These wells are still waiting for approvals of one kind or another:

Monument Butte East Federal V-35-8-16, Host well 2-2-9-16, no new disturbance (State surface, Federal mineral)  
Monument Butte East Federal W-35-8-16, Host well 2-2-9-16, no new disturbance (State surface, Federal mineral)  
Monument Butte East State K-36-8-16 [API #4301350112], Host well 9-36-8-16, new disturbance

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156

Well Name	NEWFIELD PRODUCTION COMPANY Monument Butte East State H-36-8-			
String	Surf	Prod		
Casing Size(in)	8.625	5.500		
Setting Depth (TVD)	400	6435		
Previous Shoe Setting Depth (TVD)	0	400		
Max Mud Weight (ppg)	8.3	8.6		
BOPE Proposed (psi)	0	2000		
Casing Internal Yield (psi)	2950	4810		
Operators Max Anticipated Pressure (psi)	2786	8.3		

Calculations	Surf String	8.625	"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$	173	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	125	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	85	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	85	NO      OK
Required Casing/BOPE Test Pressure=		400	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi      *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$	2878	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	2106	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	1462	YES      OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	1550	NO      Reasonable for area
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		400	psi      *Assumes 1psi/ft frac gradient

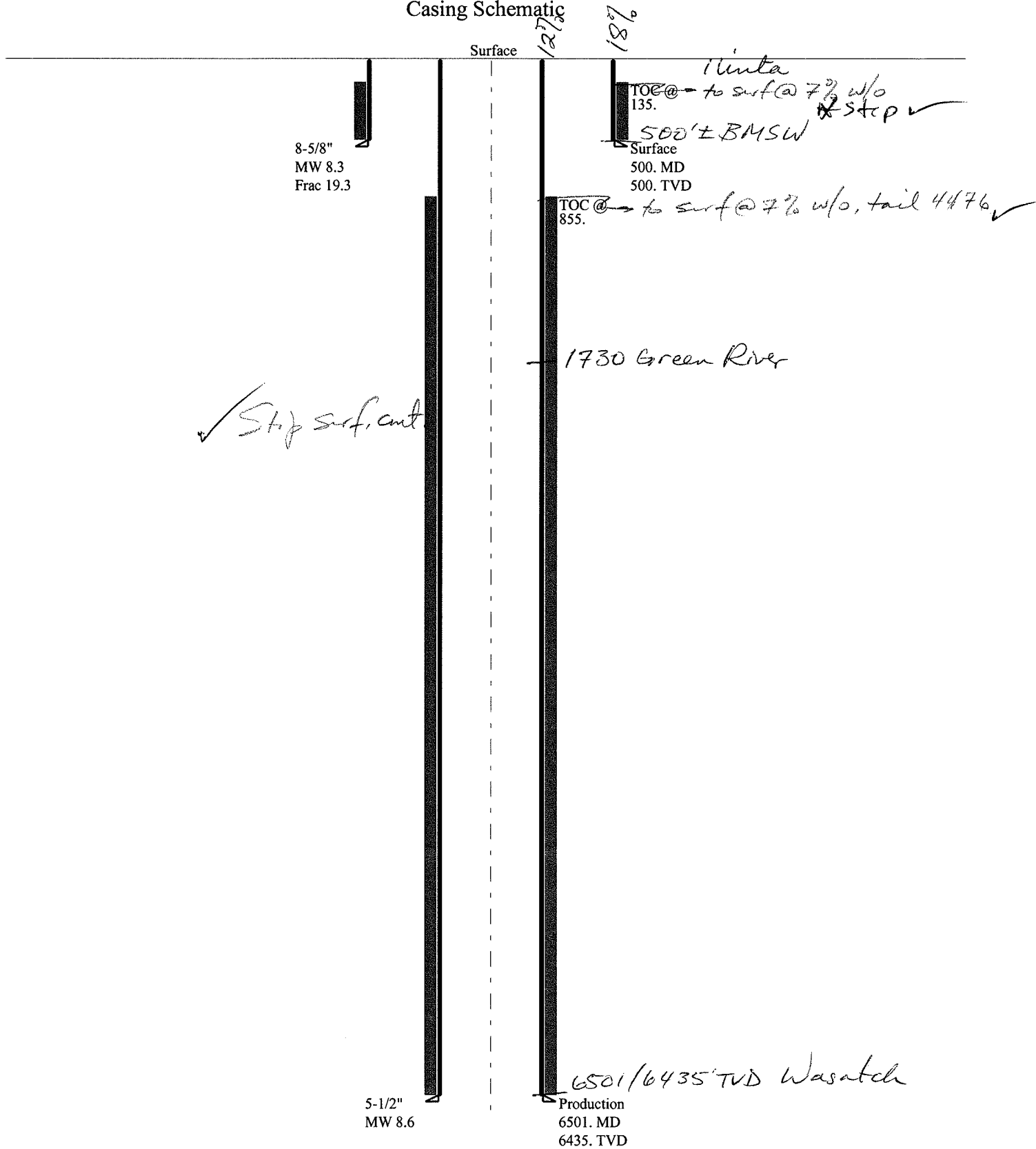
Calculations	String		"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi      *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	$.052 \times \text{Setting Depth} \times \text{MW} =$		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$		NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi      *Assumes 1psi/ft frac gradient



# 43013501110000 Monument Butte East State H-36-8-16

## Casing Schematic



Well name:	<b>43013501110000 Monument Butte East State H-36-8-16</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Surface	Project ID:	43-013-50111
Location:	DUCHESNE COUNTY		

**Design parameters:**
**Collapse**

Mud weight: 8.330 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**
**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 81 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 135 ft

**Burst**

Max anticipated surface pressure: 440 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 500 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 437 ft

**Non-directional string.**
**Re subsequent strings:**

Next setting depth: 6,435 ft  
Next mud weight: 8.600 ppg  
Next setting BHP: 2,875 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 500 ft  
Injection pressure: 500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	500	8.625	24.00	J-55	ST&C	500	500	7.972	2573
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	216	1370	6.333	500	2950	5.90	12	244	20.34 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 3, 2009  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43013501110000 Monument Butte East State H-36-8-16</b>		
Operator:	<b>NEWFIELD PRODUCTION COMPANY</b>		
String type:	Production	Project ID:	43-013-50111
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 164 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 855 ft

**Burst**

Max anticipated surface pressure: 1,459 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 2,875 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.

Neutral point: 5,653 ft

**Directional Info - Build & Hold**

Kick-off point 600 ft  
Departure at shoe: 863 ft  
Maximum dogleg: 1.5 °/100ft  
Inclination at shoe: 8.85 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6501	5.5	15.50	J-55	LT&C	6435	6501	4.825	22954

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2875	4040	1.405	2875	4810	1.67	99.7	217	2.18 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: September 3, 2009  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6435 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

*Engineering responsibility for use of this design will be that of the purchaser.*



December 2, 2009

State of Utah, Division of Oil, Gas and Mining  
ATTN: Diana Mason  
P.O. Box 145801  
Salt Lake City, UT 84114-5801

1904

RE: Directional Drilling  
**Monument Butte East State H-36-8-16**  
Greater Monument Butte (Green River) Unit  
ML-22061  
Surface Hole: T8S-R16E Section 36: SWNE  
1896' FNL 1955' FEL  
  
At Target: T8S-R16E Section 36: NWNE  
1280' FNL 2597' FEL

Duchesne County, Utah

Dear Ms. Mason;

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 8/17/09, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield Certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-existing roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at [ggillespie@newfield.com](mailto:ggillespie@newfield.com). Your consideration in this matter is greatly appreciated.

Sincerely,  
Newfield Production Company

A handwritten signature in blue ink that reads "Shane Gillespie".

Shane Gillespie  
Land Associate

RECEIVED

DEC 07 2009

DIV. OF OIL, GAS & MINING

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

### IN REPLY REFER TO:

3160  
(UT-922)

December 11, 2009

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Greater Monument  
Butte Unit, Duchesne and Uintah Counties,  
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50112 MB East State	K-36-8-16 Sec 36 T08S R16E 2004 FSL 0706 FEL	BHL Sec 36 T08S R16E 2560 FNL 0040 FEL
43-013-50111 MB East State	H-36-8-16 Sec 36 T08S R16E 1896 FNL 1955 FEL	BHL Sec 36 T08S R16E 1280 FNL 2597 FEL
43-013-50110 MB East State	M-36-8-16 Sec 36 T08S R16E 1956 FNL 2075 FWL	BHL Sec 36 T08S R16E 2560 FNL 2536 FWL
43-013-50109 MB East State	G-36-8-16 Sec 36 T08S R16E 1972 FNL 2061 FWL	BHL Sec 36 T08S R16E 1242 FNL 1280 FWL
43-013-50108 MB East State	C-36-8-16 Sec 36 T08S R16E 0624 FNL 1996 FEL	BHL Sec 36 T08S R16E 0040 FNL 2635 FEL
43-013-50107 MB East State	B-36-8-16 Sec 36 T08S R16E 0603 FNL 1995 FEL	BHL Sec 36 T08S R16E 0040 FNL 1280 FEL
43-013-50106 MB East State	J-36-8-16 Sec 36 T08S R16E 0839 FNL 0604 FEL	BHL Sec 36 T08S R16E 1317 FNL 0040 FEL
43-013-50105 MB East State	A-36-8-16 Sec 36 T08S R16E 0822 FNL 0591 FEL	BHL Sec 36 T08S R16E 0040 FNL 0040 FEL

Page 2

API #	WELL NAME	LOCATION
(Proposed PZ GREEN RIVER)		
43-013-50114	MB East State	R-36-8-16 Sec 36 T08S R16E 0842 FSL 2124 FEL BHL Sec 36 T08S R16E 1317 FSL 2612 FWL
43-013-50149	Federal	14-29-8-16 Sec 29 T08S R16E 0679 FSL 2241 FWL
43-047-50490	Federal	6-31-8-19 Sec 31 T08S R19E 0473 FNL 1813 FWL
43-013-50061	Federal	3-27-8-16 Sec 27 T08S R16E 0748 FNL 2211 FWL
43-047-40594	Federal	10-20-8-18 Sec 20 T08S R18E 2138 FSL 3060 FWL

Our records indicate the Federal 10-20-8-18 is closer than 460 feet from the Greater Monument Butte Unit boundary.

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

bcc: File - Greater Monument Butte Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:12-11-09

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

<b>Operator</b>	NEWFIELD PRODUCTION COMPANY						
<b>Well Name</b>	Monument Butte East State H-36-8-16						
<b>API Number</b>	43013501110000	<b>APD No</b>	1904	<b>Field/Unit</b>	MONUMENT BUTTE		
<b>Location: 1/4,1/4</b>	SWNE	<b>Sec</b>	36	<b>Tw</b>	8.0S	<b>Rng</b>	16.0E
<b>GPS Coord (UTM)</b>	579758	4436459	<b>Surface Owner</b>				

### **Participants**

Floyd Bartlett (DOGM), Tim Eaton (Newfield).

### **Regional/Local Setting & Topography**

The proposed Monument Butte East State H-36-8-16 proposed oil well is to be directionally drilled from the existing pad of the Monument Butte East State 7-36-8-16 water flood injection well. No changes are planned to the existing pad. The reserve pit will be re-dug near the original location in the southeast side of the pad. The wells are on 20-acre spacing.

A field review of the site and the existing pad showed no concerns and should be suitable for drilling and operating the proposed additional well.

SITLA owns both the surface and the minerals. T

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width   Length</b>		

#### **Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetlands**

#### **Flora / Fauna**

Existing Well Pad

#### **Soil Type and Characteristics**

#### **Erosion Issues**

#### **Sedimentation Issues**

#### **Site Stability Issues**

#### **Drainage Diversion Required?**

#### **Berm Required?**

**Erosion Sedimentation Control Required?**

**Paleo Survey Run?**

**Paleo Potential Observed?**

**Cultural Survey Run?**

**Cultural Resources?**

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	100 to 200	5	
<b>Distance to Surface Water (feet)</b>	>1000	0	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>		20	
<b>Native Soil Type</b>	Mod permeability	10	
<b>Fluid Type</b>	Fresh Water	5	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>		0	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	<b>Final Score</b>	40	1 Sensitivity Level

**Characteristics / Requirements**

A reserve pit will be re-dug near the original location. Its dimensions are 80' x 40' x 8' deep. A 10-foot wide bench is provided around the outside. A 16-mil liner with an appropriate sub-liner is required.

**Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y**

**Other Observations / Comments**

Floyd Bartlett  
Evaluator

8/24/2009  
Date / Time



# Application for Permit to Drill Statement of Basis

12/14/2009

**Utah Division of Oil, Gas and Mining**

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
1904	43013501110000	LOCKED	OW	S	No
<b>Operator</b>	NEWFIELD PRODUCTION COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	Monument Butte East State H-36-8-16		<b>Unit</b>	GMBU (GRRV)	
<b>Field</b>	MONUMENT BUTTE		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNE 36 8S 16E S 1896 FNL 1955 FEL GPS Coord (UTM) 579760E 4436452N				

## Geologic Statement of Basis

Newfield proposes to set 300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 500'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 36. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Surface casing should be extended to cover the base of the moderately saline ground water.

Brad Hill  
**APD Evaluator**

9/1/2009  
**Date / Time**

## Surface Statement of Basis

The proposed Monument Butte East State H-36-8-16 proposed oil well is to be directionally drilled from the existing pad of the Monument Butte East State 7-36-8-16 water flood injection well. No changes are planned to the existing pad. The reserve pit will be re-dug near the original location in the southeast side of the pad. The wells are on 20-acre spacing.

A field review of the site and the existing pad showed no concerns and should be suitable for drilling and operating the proposed additional well.

SITLA owns both the surface and the minerals. They were invited to the pre-site visit but did not attend.

The Utah Division of Wildlife Resources was also invited and did not attend.

Floyd Bartlett  
**Onsite Evaluator**

8/24/2009  
**Date / Time**

## Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# WORKSHEET

## APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/17/2009

**API NO. ASSIGNED:** 43013501110000

**WELL NAME:** Monument Butte East State H-36-8-16

**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)

**PHONE NUMBER:** 435 646-4825

**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** SWNE 36 080S 160E

**Permit Tech Review:** ☒

**SURFACE:** 1896 FNL 1955 FEL

**Engineering Review:** ☒

**BOTTOM:** 1280 FNL 2597 FEL

**Geology Review:** ☒

**COUNTY:** DUCHESNE

**LATITUDE:** 40.07645

**LONGITUDE:** -110.06459

**UTM SURF EASTINGS:** 579760.00

**NORTHINGS:** 4436452.00

**FIELD NAME:** MONUMENT BUTTE

**LEASE TYPE:** 3 - State

**LEASE NUMBER:** ML-22061

**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER

**SURFACE OWNER:** 3 - State

**COALBED METHANE:** NO

### RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - B001834
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 43-7478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingleing Approved**

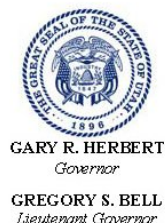
### LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** GMBU (GRRV)
- ☐ **R649-3-2. General**
- ☒ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 213-11
- Effective Date:** 11/30/2009
- Siting:** 460' fr unit boundary
- ☒ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**

- 1 - Exception Location - dmason
- 5 - Statement of Basis - bhill
- 15 - Directional - dmason
- 25 - Surface Casing - hmadonald
- 27 - Other - bhill



# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** Monument Butte East State H-36-8-16  
**API Well Number:** 43013501110000  
**Lease Number:** ML-22061  
**Surface Owner:** STATE  
**Approval Date:** 12/14/2009

### Issued to:

NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

### Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

### Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**



For Gil Hunt  
Associate Director, Oil & Gas

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY  
ADDRESS: RT. 3 BOX 3630  
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	17400	4301350111	MON BUTTE EAST ST H-36-8-16	SWNE	36	8S	16E	DUCHESNE	5/21/2010	6/7/10
WELL 1 COMMENTS: GRRV BHL = N WNE											
A	99999	17627	4304739334	UTE TRIBAL 16-29-4-1	SESE	29	4S	1E	UINTAH	5/17/2010	6/7/10
GRRV											
B	99999	17400	4304740534 4304740411	CASTLE DRAW ST N-2-9-17	NENW	2	9S	17E	SURFACE UINTAH	5/19/2010	6/7/10
GRRV BHL = S E N W Duchesne Co Sec 2 T 9 S R 17 E											
A	99999	17628	4304739333	UTE TRIBAL 12-29-4-1E	NWSW	29	4S	1E	UINTAH	5/20/2010	6/7/10
GRRV											
A	99999	17629	4304750947	HANCOCK 5-23-4-1	SWNW	23	4S	1W 1E	UINTAH	5/19/2010	6/7/10
WELL 5 COMMENTS: GRRV											
B	99999	17400	4301334071	BLACKJACK N-33-8-17	NWSW	33	8S	17E	Duchesne UINTAH	5/7/2010	6/7/10
WELL 5 COMMENTS: GRRV BHL = N W S W											

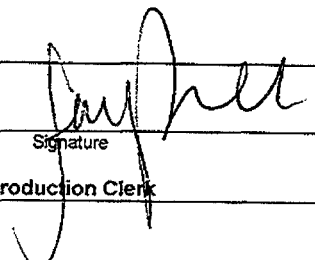
ACTION CODES (See instructions on back of form)

- A - 1 new entity for new well (single well only)
- B - well to existing entity (group or unit well)
- C - from one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - other (explain in comments section)

RECEIVED  
MAY 20 2010

DIV. OF OIL, GAS & MINING

NOTE: Use COMMENT section to explain why each Action Code was selected.

Signature:   
Jentri Park  
Production Clerk  
Date: 05/20/10

Spud  
BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration

Rig Name/# Ross #21

Submitted By Mitch Benson

Phone Number (435) 823-5885

Name/Number Monument Butte East State H-36-8-16

Qtr/Qrt SW/NE Section 36 Township 8S Range 16E

Lease Serial Number ML-22061

API Number 43-013-50111

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 5/21/2010 9:00:00 AM

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 5/21/2010 4:00:00 PM

Remarks:

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NUMBER: UTAH STATE ML-22061
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		7. UNIT or CA AGREEMENT NAME: GMBU
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1896 FNL 1955 FEL		8. WELL NAME and NUMBER: MON BUTTE EAST H-36-8-16
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 36, T8S, R16E		9. API NUMBER: 4301350111
		10. FIELD AND POOL, OR WILDCAT: GREATER MB UNIT
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
05/30/2010	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Spud Notice
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 5/21/10 MIRU Ross rig # 21. Spud well @ 9:00 PM. Drill 545' of 12 1/4" hole with air mist. TIH W/ 12 Jt's 8 5/8" J-55 24 # csgn. Set @ 543.88 KB On 5/25/10 cement with 250 sks of class "G" w/ 12% CaCL2 + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 6 bbls cement to pit. WOC.

NAME (PLEASE PRINT) Alvin Nielsen

TITLE Drilling Foreman

SIGNATURE

DATE 05/30/2010

(This space for State use only)

RECEIVED

JUN 07 2010

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 543.88

LAST CASING 14 SET AT 5  
 DATUM 13  
 DATUM TO CUT OFF CASING 13  
 DATUM TO BRADENHEAD FLANGE 13  
 TD DRILLER 545 LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company  
 WELL MON BUTTE EAST H-36-8-16  
 FIELD/PROSPECT Mon. Butte  
 CONTRACTOR & RIG # Ross Rig # 21

## LOG OF CASING STRING:

PIECES	OD	ITEM - MAKE - DESCRIPTION		WT / FT	GRD	THREAD	CONDT	LENGTH
1		Well Head						0.95
1		Float Collar						0.9
1	8 5/8"	Shoe Joint		24	J-55	STC	A	43.27
11	8 5/8"	Surface Casing		24	J-55	STC	A	488.76
CASING INVENTORY BAL.		FEET	JTS	TOTAL LENGTH OF STRING				533.88
TOTAL LENGTH OF STRING		533.88	12	LESS CUT OFF PIECE				2
LESS NON CSG. ITEMS		1.85		PLUS DATUM TO T/CUT OFF CSG				12
PLUS FULL JTS. LEFT OUT		0		CASING SET DEPTH				<b>543.88</b>
TOTAL		532.03	12	} COMPARE				
TOTAL CSG. DEL. (W/O THRDS)		532.03	12					
TIMING								
BEGIN RUN CSG.	Spud	9:00 AM	5/21/2010	GOOD CIRC THRU JOB				Yes
CSG. IN HOLE		5:00 PM	5/21/2010	Bbls CMT CIRC TO SURFACE				6
BEGIN CIRC		9:01 AM	5/25/2010	RECIPROCATED PIPI				No
BEGIN PUMP CMT		9:13 AM	5/25/2010					
BEGIN DSPL. CMT		9:30 AM	5/25/2010	BUMPED PLUG TO				240
PLUG DOWN		9:39 AM	5/25/2010					



[illegible]

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:  
UTAH STATE ML-22061

**SUNDRY NOTICES AND REPORTS ON WELLS**

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1. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR:  
NEWFIELD PRODUCTION COMPANY

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

4. LOCATION OF WELL: FOOTAGES AT SURFACE: COUNTY: DUCHESNE

OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: , 36, T8S, R16E

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
GMBU

8. WELL NAME and NUMBER:  
MON BUTTE EAST H-36-8-16

9. API NUMBER:  
4301350111

10. FIELD AND POOL, OR WILDCAT:  
GREATER MB UNIT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will  	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of Work Completion:  06/25/2010	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - Weekly Status Report
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well was completed on 06-25-10, attached is a daily completion status report.

NAME (PLEASE PRINT) Lucy Chavez-Naupoto

TITLE Administrative Assistant

SIGNATURE

DATE 06/25/2010

(This space for State use only)

RECEIVED  
JUN 29 2010

DIV. OF OIL, GAS & MINING

**Daily Activity Report****Format For Sundry****MON BUTTE EAST H-36-8-16****4/1/2010 To 8/30/2010****6/10/2010 Day: 1****Completion**

Rigless on 6/10/2010 - Run CBL & perforate 1st stage - Install 5m frac head. NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6448' & cement top @ 52'. Perforate stage #1, LODC sds @ (5752'-57') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen) w/ 3 spf for total of 12 shots. LODC sds @ (5731'-34') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen) w/ 3 spf for total of 9 shots. LODC sds @ (5709'-11') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen) w/ 3 spf for total of 6 shots. LODC sds @ (5691'-93') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen) w/ 3 spf for total of 6 shots. A3 sds @ (5659'-61') w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen) w/ 3 spf for total of 6 shots. RD H/O truck & The Perforators WLT & mast. Wait on frac crew

**Daily Cost:** \$0**Cumulative Cost:** \$12,903

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**6/19/2010 Day: 2****Completion**

Rigless on 6/19/2010 - MIRU Perforators LLC & Bj Services. Perforate & frac 3 stage. Flowback well. - MIRU Perforators LLC & Bj Services. Perforate & frac 3 stage. Screened out last stage. 20.6 bbls short of flush. 35,444#'s in formation, Left 6,360#'s in casing. Flowback well for 3 hrs. Turned to oil. SIWFN w/ 1705 BWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$104,063

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**6/21/2010 Day: 3****Completion**

WWS #3 on 6/21/2010 - MIRU WWS #3. Set kill plug. Talley, PU & RIH w/ 4 3/4" chomp bit & tbg. Tag kill plug. Circulate well clean. SIWFN w/ BWTR. - MIRU WWS #3. Unload tbg. 900 psi on well. Zubiate hot oil pumped 10 BW down csg. RU Perforators WLT. RIH w/ Weatherford 5 1/2" solid composite plug. Set plug @ 5850'. RD WLT. Bleed off pressure. ND Cameron BOP & 5M WH. NU 3M WH & Schaffer BOP. Talley, PU & RIH w/ 4 3/4" chomp bit, bit sub & 2 7/8" J-55 tbg. Tagged kill plug @ 5850'. Circulate well clean. SIWFN w/ 1712 BWTR.

**Daily Cost:** \$0**Cumulative Cost:** \$156,122

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**6/23/2010 Day: 4****Completion**

WWS #3 on 6/23/2010 - Drill out kill plug @ 2 CFTBP. Clean out to PBTD. Swab. SIWFN w/ 1552 BWTR. - 0 psi on well. Continue PU & RIH w/ tbg. Tag plug @ 4850'. RU Nabors power swivel. Drill out kill plug (25 mins). Circulate well till pressure drop off. Continue PU & RIH w/ tbg. Tag plug @ 5180', (Drilled out in 20 mins). Hang back power swivel. PU & RIH w/ tbg. Tag plug @ 5615'. RU power swivel. Drill out plug (22 mins), Tagged fill @ 6157'. Clean out to PBTD @ 6454'. Circulate well for 3hrs (Heavy sand in returns). RU swab equipment. LD 3 jts of tbg. EOT @ 6360'. Made 8 swab runs. IFL @ surface. Rec 90 BTF. FFL @ 1800'. Moderate sand @ trace of oil. SIWFN w/ 1552 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$164,112

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**6/24/2010 Day: 5**

**Completion**

WWS #3 on 6/24/2010 - Swab for sand cleanup. Trip & land production tbg. Start running rod string. - 300 psi SICP & 150 psi SITP. Bleed well off (wtr, gas & some oil). Con't swabbing for sand cleanup. Made 12 more runs rec add'l 125 BTF. FFL @ 1500'. Samples are free of sand last 4 runs. Slug tbg W/ 10 bbls wtr. TIH W/ tbg to tag sd @ 6450' (51' of new fill). C/O sd to PBTD @ 6501' & circ hole clean. Lost est 30 BW. LD excess tbg. TOH W/ tbg & LD bit. TIH W/ BHA & production tbg as follows: 2 7/8 NC, 2 jts tbg, SN, 3 jts tbg, new Central Hydraulics 5 1/2" TA (45K) & 181 jts 2 7/8 8rd 6.5# J-55 tbg. ND BOP. Set TA @ 5675' W/ SN @ 5773' & EOT @ 5837'. Land tbg W/ 18,000# tension & NU wellhead. Flush (circulate) tbg W/ 60 BW. PU & TIH W/ new pump and rod string to 3625'. PU polished rod & SIFN W/ est 1457 BWTR.

**Daily Cost:** \$0

**Cumulative Cost:** \$170,475

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**6/25/2010 Day: 6**

**Completion**

WWS #3 on 6/25/2010 - Finish PU rod string. RDMOSU. Placed well on production @ 11:00 AM 6/24/2010 W/ 144" SL @ 5 SPM. 1457 BWTR. FINAL REPORT!! - SICP @ 400 psi, SITP @ 300 psi. Bleed well off & LD polished rod. Con't PU & TIH W/ new pump and rod string f/ 3625' (complete as follows): Central Hydraulics 2 1/2" X 1 3/4" X 24' RHAC pump, 4-1 1/2" weight rods, 225-7/8" scraped rods (8 per), 1-4' & 1-2' X 7/8" pony rods and 1 1/2" X 30' polished rod. Seat pump & RU pumping unit. W/ tbg full, pressure test tbg & pump to 200 psi. Stroke pump up W/ unit to 800 psi. Good pump action. RDMOSU. Est 1457 BWTR. Place well on production @ 11:00 AM 6/24/2010 W/ 144" SL @ 5 SPM. FINAL REPORT!!.....

**Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$212,210

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**Pertinent Files: Go to File List**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

<b>1a. Type of Well</b> <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other <b>b. Type of Completion:</b> <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr., Other: _____						<b>5. Lease Serial No.</b> ML-22061																																																																																			
						<b>6. If Indian, Allottee or Tribe Name</b>																																																																																			
<b>2. Name of Operator</b> NEWFIELD EXPLORATION COMPANY						<b>7. Unit or CA Agreement Name and No.</b> GMBU																																																																																			
<b>3. Address</b> 1401 17TH ST. SUITE 1000 DENVER, CO 80202				<b>3a. Phone No. (include area code)</b> (435)646-3721		<b>8. Lease Name and Well No.</b> MONUMENT BUTTE EAST H-36-8-16																																																																																			
<b>4. Location of Well (Report location clearly and in accordance with Federal requirements)*</b>  At surface 1896' FNL & 1955' FEL (SW/NE) SEC. 36, T8S, R16E (ML-22061)  At top prod. interval reported below 1336' FNL & 2570' FEL (SW/NE) SEC. 36, T8S, R16E (ML-22061)  At total depth 1154' FNL & 2484' FWL (NE/NW) SEC. 36, T8S, R16E (ML-22061)  <i>BHL reviewed by HSM</i>						<b>9. AFI Well No.</b> 43-013-50111																																																																																			
						<b>10. Field and Pool or Exploratory</b> MONUMENT BUTTE																																																																																			
<b>14. Date Spudded</b> 05/21/2010						<b>11. Sec., T., R., M., on Block and Survey or Area</b> SEC. 36, T8S, R16E																																																																																			
						<b>12. County or Parish</b> DUCHESNE																																																																																			
<b>15. Date T.D. Reached</b> 06/04/2010						<b>13. State</b> UT																																																																																			
<b>16. Date Completed</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.						<b>17. Elevations (DF, RKB, RT, GL)*</b> 5459' GL 5471' KB																																																																																			
<b>18. Total Depth:</b> MD 6538' TVD 6423'			<b>19. Plug Back T.D.:</b> MD 6501' TVD 6385			<b>20. Depth Bridge Plug Set:</b> MD TVD																																																																																			
<b>21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)</b> DUAL IND GRD, SP, COMP. DENSITY, COMP. NEUTRON, GR, CALIPER, CMT BOND						<b>22. Was well cored?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)																																																																																			
						<b>Was DST run?</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report)																																																																																			
<b>23. Casing and Liner Record (Report all strings set in well)</b>						<b>Directional Survey?</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit copy)																																																																																			
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<b>27. Acid, Fracture, Treatment, Cement Squeeze, etc.</b>																																																																																									
<b>28. Production - Interval A</b>																																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th>Date First Produced</th><th>Test Date</th><th>Hours Tested</th><th>Test Production</th><th>Oil BBL</th><th>Gas MCF</th><th>Water BBL</th><th>Oil Gravity Corr. API</th><th>Gas Gravity</th><th>Production Method</th></tr></thead><tbody><tr><td>6-25-10</td><td>7-8-10</td><td>24</td><td>→</td><td>48</td><td>0</td><td>12</td><td></td><td></td><td>2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC Pump</td></tr></tbody></table>										Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	6-25-10	7-8-10	24	→	48	0	12			2-1/2" x 1-3/4" x 20' x 21' x 24' RHAC Pump																																																												
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<b>28a. Production - Interval B</b>																																																																																									
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			→																																																																																						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

USED FOR FUEL

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

## GEOLOGICAL MARKERS

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GARDEN GULCH MRK GARDEN GULCH 1	4057' 4260'
				GARDEN GULCH 2 POINT 3	4385' 4659'
				X MRKR Y MRKR	4905' 4944'
				DOUGALS CREEK MRK BI CARBONATE MRK	5076' 5314'
				B LIMESTON MRK CASTLE PEAK	5448' 5952'
				BASAL CARBONATE	6379'

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☒ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☒ Other: Drilling Daily Activity

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Lucy Chavez-NaupotoTitle Administrative AssistantSignature Date 07/14/2010

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



# **NEWFIELD EXPLORATION**

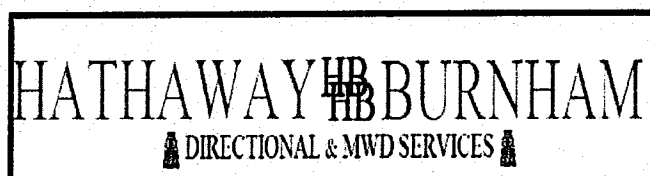
**USGS Myton SW (UT)  
SECTION 36 T8S, R16E  
H-36-8-16**

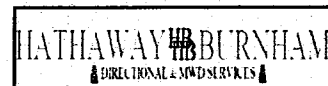
**Wellbore #1**

**Design: Actual**

## **Standard Survey Report**

**01 July, 2010**





**Company:** NEWFIELD EXPLORATION  
**Project:** USGS Myton SW (UT)  
**Site:** SECTION 36 T8S, R16E  
**Well:** H-36-8-16  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well H-36-8-16  
**TVD Reference:** H-36-8-16 @ 5471.0ft  
**MD Reference:** H-36-8-16 @ 5471.0ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 2003.21 Single User Db

<b>Project</b>	USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Central Zone		

<b>Site</b>	SECTION 36 T8S, R16E, SEC 26 T8S, R16E				
<b>Site Position:</b>		<b>Northing:</b>	7,202,697.00 ft	<b>Latitude:</b>	40° 5' 3.401 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,045,250.00 ft	<b>Longitude:</b>	110° 3' 10.915 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.93 °

Well	H-36-8-16, SHL LAT 40 04 35.13, LONG -110 03 55.19					
Well Position	+N/-S	0.0 ft	Northing:	7,199,780.45 ft	Latitude:	40° 4' 35.130 N
	+E/-W	0.0 ft	Easting:	2,041,800.06 ft	Longitude:	110° 3' 55.900 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	5,471.0 ft	Ground Level:	5,459.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	2009/07/16	11.55	65.88	52,506

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	316.16	

<b>Survey Program</b>	<b>Date</b> 2010/07/01				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
537.0	6,539.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
537.0	0.30	202.95	537.0	-1.3	-0.5	-0.6	0.06	0.06	0.00
568.0	0.30	203.00	568.0	-1.4	-0.6	-0.6	0.00	0.00	0.16
598.0	0.31	203.70	598.0	-1.6	-0.7	-0.7	0.04	0.03	2.33
629.0	0.51	244.50	629.0	-1.7	-0.8	-0.7	1.10	0.65	131.61
660.0	0.66	261.90	660.0	-1.8	-1.1	-0.5	0.74	0.48	56.13
691.0	1.16	288.10	691.0	-1.7	-1.6	-0.1	2.06	1.61	84.52
721.0	1.56	292.62	721.0	-1.5	-2.3	0.5	1.38	1.33	15.07
752.0	2.04	292.12	752.0	-1.1	-3.2	1.4	1.55	1.55	-1.61
783.0	2.40	298.27	782.9	-0.6	-4.3	2.5	1.39	1.16	19.84
813.0	2.85	294.30	812.9	0.0	-5.5	3.8	1.62	1.50	-13.23
858.0	3.50	298.71	857.8	1.1	-7.7	6.2	1.54	1.44	9.80
904.0	3.90	302.86	903.7	2.6	-10.3	9.0	1.05	0.87	9.02





## HATHAWAY BURNHAM

## Survey Report



Company: NEWFIELD EXPLORATION  
 Project: USGS Myton SW (UT)  
 Site: SECTION 36 T8S, R16E  
 Well: H-36-8-16  
 Wellbore: Wellbore #1  
 Design: Actual

Local Co-ordinate Reference: Well H-36-8-16  
 TVD Reference: H-36-8-16 @ 5471.0ft  
 MD Reference: H-36-8-16 @ 5471.0ft  
 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
949.0	4.42	312.42	948.6	4.6	-12.8	12.2	1.92	1.16	21.24
994.0	5.14	307.24	993.5	7.0	-15.7	16.0	1.86	1.60	-11.51
1,040.0	5.71	308.01	1,039.3	9.7	-19.2	20.3	1.25	1.24	1.67
1,085.0	6.20	312.82	1,084.0	12.7	-22.7	24.9	1.55	1.09	10.69
1,130.0	7.20	313.89	1,128.7	16.3	-26.5	30.1	2.24	2.22	2.38
1,175.0	8.17	317.50	1,173.3	20.6	-30.7	36.2	2.41	2.16	8.02
1,221.0	8.80	316.62	1,218.8	25.6	-35.3	42.9	1.40	1.37	-1.91
1,266.0	9.27	318.57	1,263.2	30.8	-40.1	50.0	1.25	1.04	4.33
1,310.0	10.29	316.66	1,306.6	36.3	-45.1	57.5	2.43	2.32	-4.34
1,356.0	11.23	318.71	1,351.8	42.7	-50.9	66.1	2.21	2.04	4.46
1,401.0	11.82	317.48	1,395.9	49.4	-56.9	75.0	1.42	1.31	-2.73
1,446.0	12.13	316.16	1,439.9	56.2	-63.3	84.4	0.92	0.69	-2.93
1,537.0	13.47	317.15	1,528.6	70.9	-77.1	104.5	1.49	1.47	1.09
1,627.0	13.80	315.94	1,616.1	86.3	-91.7	125.8	0.48	0.37	-1.34
1,718.0	13.67	315.59	1,704.5	101.7	-106.8	147.4	0.17	-0.14	-0.38
1,808.0	14.48	313.54	1,791.8	117.1	-122.4	169.2	1.06	0.90	-2.28
1,898.0	13.69	312.71	1,879.1	132.1	-138.4	191.1	0.91	-0.88	-0.92
1,989.0	13.80	308.80	1,967.5	146.2	-154.8	212.6	1.03	0.12	-4.30
2,079.0	13.34	308.64	2,055.0	159.4	-171.2	233.6	0.51	-0.51	-0.18
2,170.0	12.72	306.45	2,143.6	171.9	-187.5	253.8	0.87	-0.68	-2.41
2,260.0	13.18	309.17	2,231.4	184.3	-203.4	273.8	0.85	0.51	3.02
2,351.0	13.51	306.36	2,319.9	197.1	-220.0	294.6	0.80	0.36	-3.09
2,441.0	13.40	309.57	2,407.4	210.0	-236.5	315.3	0.84	-0.12	3.57
2,532.0	13.25	310.60	2,496.0	223.5	-252.6	336.1	0.31	-0.16	1.13
2,622.0	14.19	312.42	2,583.4	237.6	-268.5	357.4	1.15	1.04	2.02
2,713.0	15.40	311.63	2,671.4	253.2	-285.8	380.6	1.35	1.33	-0.87
2,804.0	15.93	311.48	2,759.0	269.5	-304.2	405.1	0.58	0.58	-0.16
2,894.0	15.34	313.06	2,845.7	285.8	-322.2	429.3	0.81	-0.66	1.76
2,985.0	14.26	307.86	2,933.7	300.9	-339.8	452.4	1.88	-1.19	-5.71
3,076.0	14.61	309.94	3,021.8	315.1	-357.4	474.9	0.69	0.38	2.29
3,166.0	14.35	314.75	3,108.9	330.3	-374.1	497.3	1.37	-0.29	5.34
3,257.0	14.22	319.12	3,197.1	346.7	-389.4	519.8	1.19	-0.14	4.80
3,347.0	13.67	319.89	3,284.5	363.2	-403.5	541.4	0.64	-0.61	0.86
3,438.0	12.15	315.89	3,373.2	378.3	-417.1	561.7	1.94	-1.67	-4.40
3,529.0	13.06	316.13	3,462.0	392.6	-430.9	581.6	1.00	1.00	0.26
3,619.0	11.96	313.21	3,549.8	406.3	-444.7	601.1	1.41	-1.22	-3.24
3,710.0	11.71	312.25	3,638.9	418.9	-458.4	619.7	0.35	-0.27	-1.05
3,801.0	11.76	313.17	3,728.0	431.5	-472.0	638.2	0.21	0.05	1.01
3,891.0	11.21	312.53	3,816.2	443.7	-485.2	656.1	0.63	-0.61	-0.71
3,982.0	11.10	309.39	3,905.5	455.2	-498.4	673.6	0.68	-0.12	-3.45
4,073.0	10.39	312.73	3,994.9	466.3	-511.2	690.5	1.04	-0.78	3.67
4,163.0	9.40	307.59	4,083.6	476.3	-523.0	705.8	1.47	-1.10	-5.71
4,254.0	10.31	306.80	4,173.2	485.7	-535.4	721.2	1.01	1.00	-0.87
4,345.0	10.42	309.46	4,262.7	495.9	-548.3	737.4	0.54	0.12	2.92
4,435.0	10.44	314.11	4,351.2	506.7	-560.4	753.7	0.94	0.02	5.17
4,526.0	9.71	315.78	4,440.8	517.9	-571.7	769.6	0.86	-0.80	1.84
4,616.0	9.40	314.25	4,529.6	528.5	-582.3	784.5	0.45	-0.34	-1.70
4,707.0	9.76	315.17	4,619.3	539.2	-593.0	799.7	0.43	0.40	1.01
4,798.0	9.34	312.53	4,709.1	549.6	-603.9	814.7	0.67	-0.46	-2.90
4,888.0	9.87	314.27	4,797.8	559.9	-614.8	829.7	0.67	0.59	1.93
4,979.0	10.59	315.41	4,887.3	571.3	-626.3	845.9	0.82	0.79	1.25
5,069.0	10.09	312.73	4,975.9	582.6	-637.9	862.0	0.77	-0.56	-2.98
5,160.0	10.72	314.38	5,065.4	593.9	-649.8	878.4	0.77	0.69	1.81
5,250.0	10.17	312.05	5,153.9	605.1	-661.7	894.7	0.77	-0.61	-2.59



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 North Reference: True  
 Survey Calculation Method: Minimum Curvature  
 Database: EDM 2003.21 Single User Db

## Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,341.0	10.94	308.64	5,243.4	615.9	-674.4	911.3	1.09	0.85	-3.75
5,392.6	10.36	309.07	5,294.0	621.8	-681.8	920.8	1.13	-1.12	0.84
<b>H-36-8-16 TGT</b>									
5,431.0	9.93	309.43	5,331.9	626.1	-687.0	927.5	1.13	-1.12	0.93
5,522.0	9.65	312.05	5,421.5	636.2	-698.8	942.9	0.58	-0.31	2.88
5,613.0	11.25	313.96	5,511.0	647.5	-710.8	959.4	1.80	1.76	2.10
5,703.0	10.79	313.83	5,599.4	659.4	-723.2	976.6	0.51	-0.51	-0.14
5,794.0	11.04	311.42	5,688.7	671.1	-735.9	993.7	0.57	0.27	-2.65
5,885.0	9.32	307.41	5,778.3	681.3	-748.3	1,009.7	2.04	-1.89	-4.41
5,975.0	9.07	299.59	5,867.1	689.3	-760.2	1,023.7	1.41	-0.28	-8.69
6,066.0	9.91	297.52	5,956.9	696.4	-773.4	1,038.0	1.00	0.92	-2.27
6,156.0	10.44	300.86	6,045.5	704.2	-787.3	1,053.2	0.88	0.59	3.71
6,247.0	10.68	305.83	6,134.9	713.3	-801.2	1,069.5	1.03	0.26	5.46
6,338.0	10.55	306.77	6,224.4	723.3	-814.7	1,086.0	0.24	-0.14	1.03
6,428.0	9.43	305.72	6,313.0	732.5	-827.3	1,101.4	1.26	-1.24	-1.17
6,488.0	8.66	304.02	6,372.3	737.9	-835.0	1,110.6	1.36	-1.28	-2.83
6,539.0	8.66	304.02	6,422.7	742.2	-841.4	1,118.1	0.00	0.00	0.00

## Wellbore Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
H-36-8-16 TGT	0.00	0.00	5,300.0	606.0	-653.0	7,200,375.88	2,041,137.40	40° 4' 41.119 N	110° 4' 4.301 W
- actual wellpath misses by 33.4ft at 5392.7ft MD (5294.2 TVD, 621.9 N, -681.8 E)									
- Circle (radius 75.0)									

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# NEWFIELD



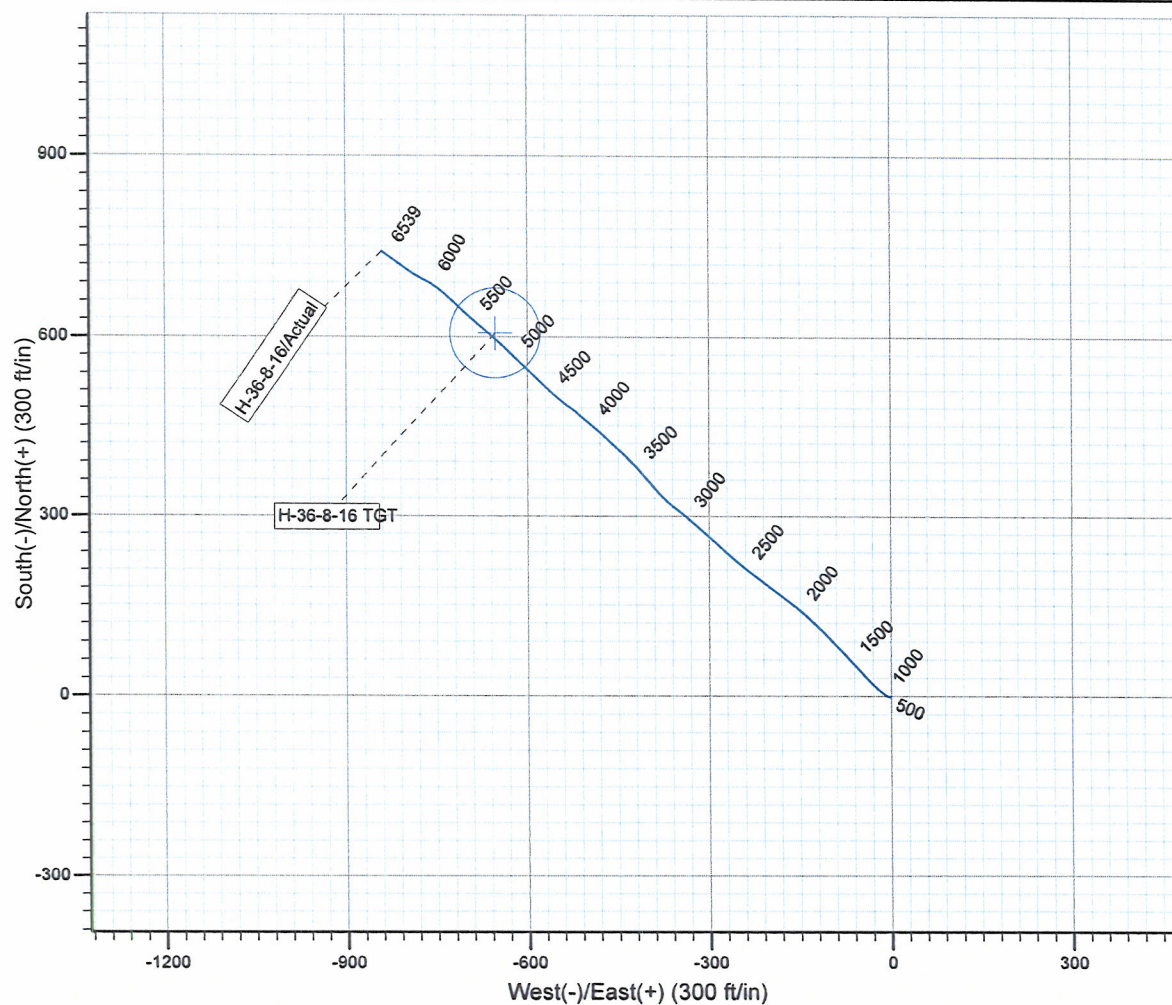
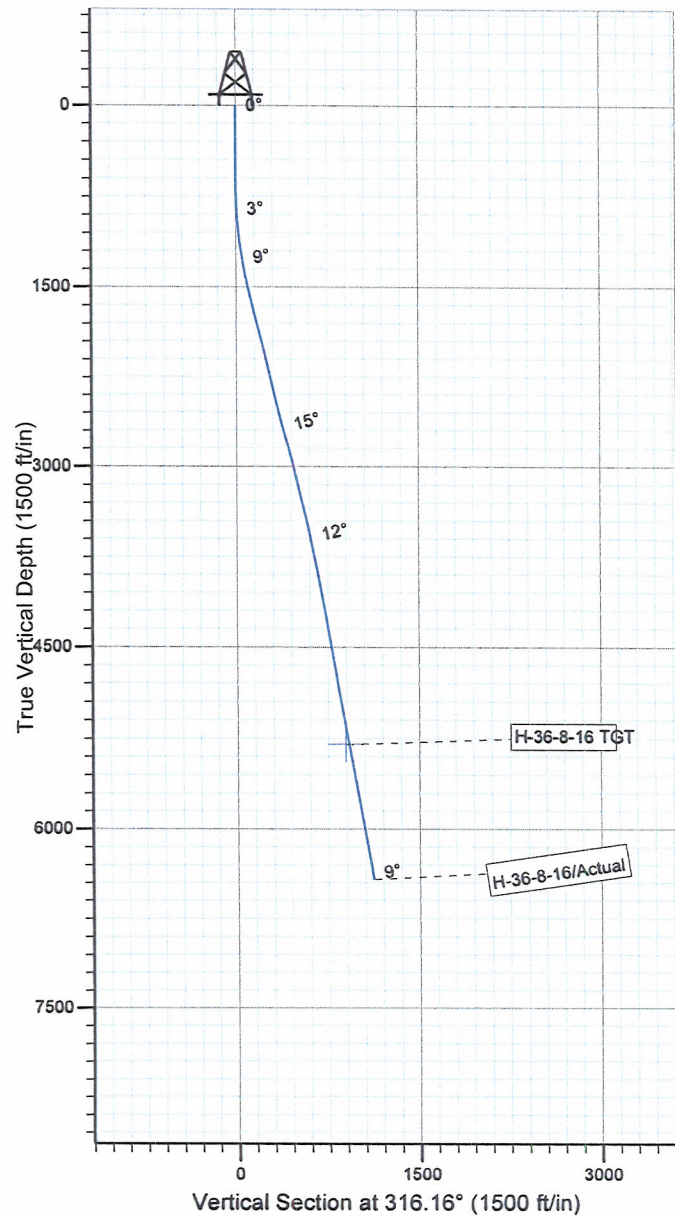
Project: USGS Myton SW (UT)  
 Site: SECTION 36 T8S, R16E  
 Well: H-36-8-16  
 Wellbore: Wellbore #1  
 SURVEY: Actual

FINAL SURVEY REPORT



Azimuths to True North  
 Magnetic North: 11.55°

Magnetic Field  
 Strength: 52506.4snT  
 Dip Angle: 65.88°  
 Date: 2009/07/16  
 Model: IGRF200510



HATHAWAY HBBURNHAM  
 DIRECTIONAL & MWD SERVICES

Design: Actual (H-36-8-16/Wellbore #1)

Created By: *Jim Hudson* Date: 21:09, July 01 2010  
 THIS SURVEY IS CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA.

**Daily Activity Report**

Format For Sundry

**MON BUTTE EAST H-36-8-16****3/1/2010 To 7/30/2010****MON BUTTE EAST H-36-8-16****Waiting on Cement****Date:** 5/26/2010

Ross #21 at 545. Days Since Spud - Mixed @ 15.8ppg W/ 1.17 Yield. Retuned 6bbls Cement to pit. - On 5/25/10 R/U BJ and Cement W/ 250sk of Class "G"+2%CaCl+.25#sk Cello Flake - On 5/21/10 Spud W/ Ross Rig # 21. Drill 545' of 12 1/4" hole, run 12jts 8 5/8" casing set @ 543.88KB

**Daily Cost:** \$0**Cumulative Cost:** \$51,680

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**MON BUTTE EAST H-36-8-16****Drill 7 7/8" hole with fresh water****Date:** 6/2/2010

Capstar #328 at 2402. 1 Days Since Spud - Strap BHA and rig up flare lines - Drill 7 7/8" hole F/ 479' to 2402' w/ 18K WOB,TRPM-184,GPM-415,Avg ROP-183 ft/hr - Move rig 10 miles w/ Howcroft and set equipment and Nipple up - No H2S reported in last 24 hours - R/U B&C and test kelly,choke,pipe&blind rams to 2000#/10min and Hydrill 1500#,casing 1500#/30min - P/U bit,m.m, directional tools ,HWDP and TIH, Tag @ 479'

**Daily Cost:** \$0**Cumulative Cost:** \$112,175

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**MON BUTTE EAST H-36-8-16****Drill 7 7/8" hole with fresh water****Date:** 6/3/2010

Capstar #328 at 5075. 2 Days Since Spud - Rig Service, function test BOP and Crownomatic - Drill 7 7/8" hole f/ 3807' to 5075' w/ 20K WOB,TRPMP-184,GPM-409,Avg ROP- 85 ft/hr - Drill 7 7/8" hole F/ 2402' to 3807' w/ 20K WOB,TRPM-184,GPM-409,Avg ROP-165 ft/hr - No H2S or flow reported in last 24 hours

**Daily Cost:** \$0**Cumulative Cost:** \$133,699

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**MON BUTTE EAST H-36-8-16****Lay Down Drill Pipe/BHA****Date:** 6/4/2010

Capstar #328 at 6538. 3 Days Since Spud - Drill 7 7/8" hole F/ 5075' to 5845' w/ 20K WOB,TRPM-184,GPM-409,Avg ROP- 86 ft/hr - Drill 7 7/8" hole F/5845' to 6538' TD w/20K WOB,TRPM-184,GPM-409, Avg ROP- 77 ft/hr - Pump sweep, and circulate hole clean for lay down to log - Lay down drill pipe and BHA, directional tools - NO H2S or flow reported in last 24 hours - Rig Service, check crownomatic and BOP

**Daily Cost:** \$0**Cumulative Cost:** \$189,831

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**MON BUTTE EAST H-36-8-16****Wait on Completion****Date:** 6/5/2010

Capstar #328 at 6538. 4 Days Since Spud - R/U and run 150 jts of 5.5",J55,15.5#,LTC set @ 6526.19', - Circulate - R/U BJ Head,Test lines to 3500#, cement w/250 sks of lead @ 11ppg & 3.53 yield (PL II+3%KCL + .5#/sk - CF+FP+6L) pump 400 sks of tail @ 14.4 ppg & 1.24 yield ( 50:50:2+3%KCL +.25#/CF+EC-1+FP) displace - R/U PSI and log F/6318' to surface (triple combo,porosity,resistivity) - Nipple down and set slips - Clean mud tanks - Release Rig @ 2300 6-4-10 - 154.8 bbls of fresh, returned 10 bbls back to pit,bump plug 2299 psi.BLM&

State notified via email **Finalized**

**Daily Cost:** \$0

**Cumulative Cost:** \$290,691

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**Pertinent Files: Go to File List**